

---

---

**Information technology — Document  
description and processing languages —  
Office Open XML File Formats —**

**Part 4:  
Transitional Migration Features**

*Technologies de l'information — Description des documents et  
langages de traitement — Formats de fichier "Office Open XML" —*

*Partie 4: Caractéristiques de migration transitoire*

STANDARDSISO.COM : Click to view the full PDF of ISO/IEC 29500-4:2011



**COPYRIGHT PROTECTED DOCUMENT**

© ISO/IEC 2011

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.org](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published in Switzerland

## Table of Contents

|                                                              |             |
|--------------------------------------------------------------|-------------|
| <b>Foreword</b> .....                                        | <b>xiii</b> |
| <b>Introduction</b> .....                                    | <b>xiv</b>  |
| <b>1. Scope</b> .....                                        | <b>1</b>    |
| <b>2. Conformance</b> .....                                  | <b>2</b>    |
| 2.1 Document Conformance.....                                | 2           |
| 2.2 Application Conformance .....                            | 2           |
| <b>3. Normative References</b> .....                         | <b>4</b>    |
| <b>4. Terms and Definitions</b> .....                        | <b>8</b>    |
| <b>5. Notational Conventions</b> .....                       | <b>10</b>   |
| <b>6. Acronyms and Abbreviations</b> .....                   | <b>11</b>   |
| <b>7. General Description</b> .....                          | <b>12</b>   |
| <b>8. Additional Shared Parts</b> .....                      | <b>13</b>   |
| 8.1 VML Drawing Part .....                                   | 13          |
| <b>9. WordprocessingML</b> .....                             | <b>15</b>   |
| 9.1 Part Summary (Part 1, §11.3) .....                       | 15          |
| 9.1.1 Alternative Format Import Part (Part 1, §11.3.1) ..... | 15          |
| 9.1.2 Comments Part (Part 1, §11.3.2) .....                  | 15          |
| 9.1.3 Document Settings Part (Part 1, §11.3.3) .....         | 15          |
| 9.1.4 Endnotes Part (Part 1, §11.3.4) .....                  | 15          |
| 9.1.5 Fonts Table Part (Part 1, §11.3.5) .....               | 15          |
| 9.1.6 Footer Part (Part 1, §11.3.6) .....                    | 15          |
| 9.1.7 Footnotes Part (Part 1, §11.3.7).....                  | 16          |
| 9.1.8 Glossary Document Part (Part 1, §11.3.8) .....         | 16          |
| 9.1.9 Header Part (Part 1, §11.3.9) .....                    | 16          |
| 9.1.10 Main Document Part (Part 1, §11.3.10).....            | 16          |
| 9.1.11 Numbering Definitions Part (Part 1, §11.3.11) .....   | 16          |
| 9.1.12 Style Definitions Part (Part 1, §11.3.12).....        | 16          |
| 9.1.13 Web Settings Part (Part 1, §11.3.13).....             | 16          |
| 9.2 Document Template (Part 1, §11.4) .....                  | 17          |
| 9.3 Framesets (Part 1, §11.5).....                           | 17          |
| 9.4 Master Documents and Subdocuments (Part 1, §11.6) .....  | 17          |
| 9.5 Mail Merge Data Source (Part 1, §11.7) .....             | 17          |
| 9.6 Mail Merger Header Data Source (Part 1, §11.8) .....     | 17          |
| 9.7 XSL Transformation (Part 1, §11.9).....                  | 17          |
| <b>10. SpreadsheetML</b> .....                               | <b>18</b>   |
| 10.1 Part Summary (Part 1, §12.3) .....                      | 18          |
| 10.1.1 Calculation Chain Part (Part 1, §12.3.1).....         | 18          |
| 10.1.2 Chartsheet Part (Part 1, §12.3.2) .....               | 18          |
| 10.1.3 Comments Part (Part 1, §12.3.3) .....                 | 18          |

|            |                                                               |           |
|------------|---------------------------------------------------------------|-----------|
| 10.1.4     | Connections Part (Part 1, §12.3.4).....                       | 18        |
| 10.1.5     | Custom Property Part (Part 1, §12.3.5).....                   | 18        |
| 10.1.6     | Custom XML Mappings Part (Part 1, §12.3.6).....               | 19        |
| 10.1.7     | Dialogsheet Part (Part 1, §12.3.7).....                       | 19        |
| 10.1.8     | Drawings Part (Part 1, §12.3.8).....                          | 19        |
| 10.1.9     | External Workbook References Part (Part 1, §12.3.9).....      | 19        |
| 10.1.10    | Metadata Part (Part 1, §12.3.10).....                         | 19        |
| 10.1.11    | Pivot Table Part (Part 1, §12.3.11).....                      | 19        |
| 10.1.12    | Pivot Table Cache Definition Part (Part 1, §12.3.12).....     | 19        |
| 10.1.13    | Pivot Table Cache Records Part (Part 1, §12.3.13).....        | 20        |
| 10.1.14    | Query Table Part (Part 1, §12.3.14).....                      | 20        |
| 10.1.15    | Shared Strings Table Part (Part 1, §12.3.15).....             | 20        |
| 10.1.16    | Shared Workbook Revision Headers Part (Part 1, §12.3.16)..... | 20        |
| 10.1.17    | Shared Workbook Revision Log Part (Part 1, §12.3.17).....     | 20        |
| 10.1.18    | Shared Workbook User Data part (Part 1, §12.3.18).....        | 20        |
| 10.1.19    | Single Cell Table Definitions Part (Part 1, §12.3.19).....    | 20        |
| 10.1.20    | Styles Part (Part 1, §12.3.20).....                           | 21        |
| 10.1.21    | Table Definition Part (Part 1, §12.3.21).....                 | 21        |
| 10.1.22    | Volatile Dependencies Part (Part 1, §12.3.22).....            | 21        |
| 10.1.23    | Workbook Part (Part 1, §12.3.23).....                         | 21        |
| 10.1.24    | Worksheet Part (Part 1, §12.3.24).....                        | 21        |
| 10.2       | External Workbooks (Part 1, §12.4).....                       | 21        |
| <b>11.</b> | <b>PresentationML.....</b>                                    | <b>22</b> |
| 11.1       | Part Summary (Part 1, §13.3).....                             | 22        |
| 11.1.1     | Comment Authors Part (Part 1, §13.3.1).....                   | 22        |
| 11.1.2     | Comments Part (Part 1, §13.3.2).....                          | 22        |
| 11.1.3     | Handout Master Part (Part 1, §13.3.3).....                    | 22        |
| 11.1.4     | Notes Master Part (Part 1, §13.3.4).....                      | 22        |
| 11.1.5     | Notes Slide Part (Part 1, §13.3.5).....                       | 22        |
| 11.1.6     | Presentation Part (Part 1, §13.3.6).....                      | 23        |
| 11.1.7     | Presentation Properties Part (Part 1, §13.3.7).....           | 23        |
| 11.1.8     | Slide Part (Part 1, §13.3.8).....                             | 23        |
| 11.1.9     | Slide Layout Part (Part 1, §13.3.9).....                      | 23        |
| 11.1.10    | Slide Master Part (Part 1, §13.3.10).....                     | 23        |
| 11.1.11    | Slide Synchronization Data Part (Part 1, §13.3.11).....       | 23        |
| 11.1.12    | User Defined Tags Part (Part 1, §13.3.12).....                | 23        |
| 11.1.13    | View Properties Part (Part 1, §13.3.13).....                  | 24        |
| 11.2       | HTML Publish Location (Part 1, §13.4).....                    | 24        |
| 11.3       | Slide Synchronization Server Location (Part 1, §13.5).....    | 24        |
| <b>12.</b> | <b>DrawingML.....</b>                                         | <b>25</b> |
| 12.1       | Part Summary (Part 1, §14.2).....                             | 25        |
| 12.1.1     | Chart Part (Part 1, §14.2.1).....                             | 25        |
| 12.1.2     | Chart Drawing Part (Part 1, §14.2.2).....                     | 25        |
| 12.1.3     | Diagram Colors Part (Part 1, §14.2.3).....                    | 25        |
| 12.1.4     | Diagram Data Part (Part 1, §14.2.4).....                      | 25        |
| 12.1.5     | Diagram Layout Definition Part (Part 1, §14.2.5).....         | 25        |
| 12.1.6     | Diagram Style Part (Part 1, §14.2.6).....                     | 26        |



|            |                                                                  |           |
|------------|------------------------------------------------------------------|-----------|
| 12.1.7     | Theme Part (Part 1, §14.2.7).....                                | 26        |
| 12.1.8     | Theme Override Part (Part 1, §14.2.8).....                       | 26        |
| 12.1.9     | Table Styles Part (Part 1, §14.2.9).....                         | 26        |
| <b>13.</b> | <b>Shared MLs.....</b>                                           | <b>27</b> |
| 13.1       | Part Summary (Part 1, §15.2).....                                | 27        |
| 13.1.1     | Additional Characteristics Part (Part 1, §15.2.1).....           | 27        |
| 13.1.2     | Audio Part (Part 1, §15.2.2).....                                | 27        |
| 13.1.3     | Bibliography Part (Part 1, §15.2.3).....                         | 27        |
| 13.1.4     | Content Part (Part 1, §15.2.4).....                              | 27        |
| 13.1.5     | Custom XML Data Storage Part (Part 1, §15.2.5).....              | 27        |
| 13.1.6     | Custom XML Data Storage Properties Part (Part 1, §15.2.6).....   | 27        |
| 13.1.7     | Embedded Control Persistence Part (Part 1, §15.2.9).....         | 28        |
| 13.1.8     | Embedded Object Part (Part 1, §15.2.10).....                     | 28        |
| 13.1.9     | Embedded Package Part (Part 1, §15.2.11).....                    | 28        |
| 13.1.10    | Core File Properties Part (Part 1, §15.2.12.1).....              | 28        |
| 13.1.11    | Custom File Properties Part (Part 1, §15.2.12.2).....            | 28        |
| 13.1.12    | Extended File Properties Part (Part 1, §15.2.12.3).....          | 28        |
| 13.1.13    | Font Part (Part 1, §15.2.13).....                                | 28        |
| 13.1.14    | Image Part (Part 1, §15.2.14).....                               | 28        |
| 13.1.15    | Printer Settings Part (Part 1, §15.2.15).....                    | 28        |
| 13.1.16    | Thumbnail Part (Part 1, §15.2.16).....                           | 29        |
| 13.1.17    | Video Part (Part 1, §15.2.17).....                               | 29        |
| 13.2       | Hyperlinks Part (Part 1, §15.3).....                             | 29        |
| <b>14.</b> | <b>WordprocessingML Reference Material.....</b>                  | <b>30</b> |
| 14.1       | Table of Contents.....                                           | 30        |
| 14.2       | Paragraphs and Rich Formatting.....                              | 33        |
| 14.2.1     | Paragraphs.....                                                  | 33        |
| 14.2.2     | Run Content.....                                                 | 34        |
| 14.3       | Tables.....                                                      | 37        |
| 14.3.1     | left (Table Cell Leading Edge Border).....                       | 37        |
| 14.3.2     | left (Table Leading Edge Border).....                            | 38        |
| 14.3.3     | left (Table Cell Leading Margin Exception).....                  | 38        |
| 14.3.4     | left (Table Cell Leading Margin Default).....                    | 38        |
| 14.3.5     | right (Table Cell Trailing Edge Border).....                     | 38        |
| 14.3.6     | right (Table Trailing Edge Border).....                          | 39        |
| 14.3.7     | right (Table Cell Trailing Margin Default).....                  | 39        |
| 14.3.8     | right (Table Cell Trailing Margin Exception).....                | 39        |
| 14.3.9     | Additional attribute for cnfStyle element (Part 1, §17.4.7)..... | 40        |
| 14.3.10    | Additional attribute for cnfStyle element (Part 1, §17.4.8)..... | 41        |
| 14.3.11    | Additional attribute for tblLook element (Part 1, §17.4.55)..... | 42        |
| 14.3.12    | Additional attribute for tblLook element (Part 1, §17.4.56)..... | 43        |
| 14.4       | Fonts.....                                                       | 44        |
| 14.4.1     | Elements.....                                                    | 44        |
| 14.5       | Numbering.....                                                   | 45        |
| 14.5.1     | pict (Picture Numbering Symbol Properties).....                  | 45        |
| 14.6       | Annotations.....                                                 | 46        |
| 14.6.1     | Revisions.....                                                   | 46        |

|          |                                                                                            |     |
|----------|--------------------------------------------------------------------------------------------|-----|
| 14.7     | Settings .....                                                                             | 55  |
| 14.7.1   | Legacy Password Hash Algorithm .....                                                       | 55  |
| 14.7.2   | Document Settings.....                                                                     | 63  |
| 14.7.3   | Compatibility Settings.....                                                                | 78  |
| 14.8     | Miscellaneous Topics.....                                                                  | 162 |
| 14.8.1   | Text Box Content.....                                                                      | 162 |
| 14.9     | Fields and Hyperlinks.....                                                                 | 165 |
| 14.9.1   | Syntax.....                                                                                | 165 |
| 14.9.2   | Legacy language references.....                                                            | 166 |
| 14.9.3   | Use of DOS File Paths.....                                                                 | 173 |
| 14.9.4   | Field definitions.....                                                                     | 173 |
| 14.9.5   | fldData (Custom Field Data).....                                                           | 182 |
| 14.9.6   | fldData (Custom Field Data).....                                                           | 183 |
| 14.9.7   | hyperlink (Hyperlink) (Part 1, §17.16.22).....                                             | 184 |
| 14.10    | Simple Types.....                                                                          | 184 |
| 14.10.1  | Additional member types for the union in ST_DecimalNumberOrPercent (Part 1, §17.18.11) ... | 184 |
| 14.10.2  | Additional enumeration values for ST_Jc (Part 1, §17.18.44).....                           | 184 |
| 14.10.3  | Additional enumeration values for ST_JcTable (Part 1, §17.18.45).....                      | 185 |
| 14.10.4  | Additional enumeration values for ST_NumberFormat (Part 1, §17.18.59) .....                | 185 |
| 14.10.5  | Additional enumeration values for ST_StyleSort (Part 1, §17.18.82).....                    | 186 |
| 14.10.6  | Additional enumeration values for ST_TabJc (Part 1, §17.18.84).....                        | 186 |
| 14.10.7  | Additional enumeration values for ST_TextDirection (Part 1, §17.18.93).....                | 186 |
| 14.10.8  | Additional member types for the union in ST_TextScale (Part 1, §17.18.95) .....            | 187 |
| 14.10.9  | ST_Cnf (Conditional Formatting Bitmask).....                                               | 187 |
| 14.10.10 | ST_UnqualifiedPercentage (Percentage Value Without Percent Sign).....                      | 188 |
| 14.10.11 | ST_TextScaleDecimal (Text Expansion/Compression Percentage).....                           | 189 |
| 14.11    | Changed attributes .....                                                                   | 189 |
| 14.11.1  | Changed attribute for contentPart element (Part 1, §17.3.3.2).....                         | 189 |
| 14.11.2  | Changed attribute for control element (Part 1, §17.3.3.3).....                             | 190 |
| 14.11.3  | Changed attribute for movie element (Part 1, §17.3.3.17) .....                             | 190 |
| 14.11.4  | Changed attribute for objectEmbed element (Part 1, §17.3.3.20).....                        | 191 |
| 14.11.5  | Changed attribute for objectLink element (Part 1, §17.3.3.21).....                         | 192 |
| 14.11.6  | Changed attribute for bottom element (Part 1, §17.6.2) .....                               | 192 |
| 14.11.7  | Changed attribute for left element (Part 1, §17.6.7).....                                  | 193 |
| 14.11.8  | Changed attribute for printerSettings element (Part 1, §17.6.14) .....                     | 194 |
| 14.11.9  | Changed attribute for right element (Part 1, §17.6.15).....                                | 195 |
| 14.11.10 | Changed attribute for top element (Part 1, §17.6.21).....                                  | 195 |
| 14.11.11 | Changed attribute for embedBold element (Part 1, §17.8.3.3).....                           | 197 |
| 14.11.12 | Changed attribute for embedBoldItalic element (Part 1, §17.8.3.4).....                     | 197 |
| 14.11.13 | Changed attribute for embedItalic element (Part 1, §17.8.3.5) .....                        | 198 |
| 14.11.14 | Changed attribute for embedRegular element (Part 1, §17.8.3.6).....                        | 199 |
| 14.11.15 | Changed attribute for footerReference element (Part 1, §17.10.2).....                      | 199 |
| 14.11.16 | Changed attribute for headerReference element (Part 1, §17.10.5) .....                     | 200 |
| 14.11.17 | Changed attribute for dataSource element (Part 1, §17.14.9).....                           | 201 |
| 14.11.18 | Changed attribute for headerSource element (Part 1, §17.14.16).....                        | 201 |
| 14.11.19 | Changed attribute for recipientData element (Part 1, §17.14.28) .....                      | 202 |
| 14.11.20 | Changed attribute for src element (Part 1, §17.14.30).....                                 | 203 |
| 14.11.21 | Changed attribute for attachedTemplate element (Part 1, §17.15.1.6).....                   | 203 |

|            |                                                                          |            |
|------------|--------------------------------------------------------------------------|------------|
| 14.11.22   | Changed attribute for saveThroughXslt element (Part 1, §17.15.1.76)      | 204        |
| 14.11.23   | Changed attribute for longDesc element (Part 1, §17.15.2.23)             | 204        |
| 14.11.24   | Changed attribute for sourceFileName element (Part 1, §17.15.2.39)       | 205        |
| 14.11.25   | Changed attribute for subDoc element (Part 1, §17.17.1.1)                | 206        |
| 14.11.26   | Changed attribute for altChunk element (Part 1, §17.17.2.1)              | 206        |
| <b>15.</b> | <b>SpreadsheetML Reference Material</b>                                  | <b>208</b> |
| 15.1       | Table of Contents                                                        | 208        |
| 15.2       | Workbook                                                                 | 208        |
| 15.2.1     | Additional attribute for fileSharing element (Part 1, §18.2.12)          | 208        |
| 15.2.2     | Additional attribute for webPublishing element (Part 1, §18.2.24)        | 209        |
| 15.2.3     | Additional attributes for workbookProtection element (Part 1, §18.2.29)  | 209        |
| 15.3       | Worksheets                                                               | 215        |
| 15.3.1     | Worksheets                                                               | 215        |
| 15.3.2     | AutoFilter Settings                                                      | 218        |
| 15.4       | Styles                                                                   | 219        |
| 15.4.1     | left (Leading Edge Border)                                               | 219        |
| 15.4.2     | right (Trailing Edge Border)                                             | 220        |
| 15.5       | Pivot Tables                                                             | 220        |
| 15.5.1     | Pivot Tables                                                             | 220        |
| 15.6       | External Data Connections                                                | 220        |
| 15.6.1     | Additional attribute for textPr element (Part 1, §18.13.12)              | 220        |
| 15.7       | Simple Types                                                             | 221        |
| 15.7.1     | Additional enumeration values for ST_PivotAreaType (Part 1, §18.18.58)   | 221        |
| 15.7.2     | ST_UnsignedShortHex (Unsigned Short Hex)                                 | 221        |
| 15.8       | Formulas                                                                 | 221        |
| 15.8.1     | Attribute synonym for c element (Part 1, §18.6.1)                        | 221        |
| 15.8.2     | Additional representation for dates and times (Part 1, §18.17.4)         | 222        |
| 15.9       | Changed attributes                                                       | 222        |
| 15.9.1     | Changed attribute for externalReference element (Part 1, §18.2.8)        | 222        |
| 15.9.2     | Changed attribute for pivotCache element (Part 1, §18.2.17)              | 222        |
| 15.9.3     | Changed attribute for sheet element (Part 1, §18.2.19)                   | 222        |
| 15.9.4     | Changed attribute for control element (Part 1, §18.3.1.19)               | 223        |
| 15.9.5     | Changed attribute for controlPr element (Part 1, §18.3.1.20)             | 223        |
| 15.9.6     | Changed attribute for customPr element (Part 1, §18.3.1.22)              | 223        |
| 15.9.7     | Changed attribute for dataRef element (Part 1, §18.3.1.30)               | 224        |
| 15.9.8     | Changed attribute for drawing element (Part 1, §18.3.1.36)               | 224        |
| 15.9.9     | Changed attribute for drawingHF element (Part 1, §18.3.1.37)             | 224        |
| 15.9.10    | Changed attribute for hyperlink element (Part 1, §18.3.1.47)             | 224        |
| 15.9.11    | Changed attribute for objectPr element (Part 1, §18.3.1.56)              | 225        |
| 15.9.12    | Changed attribute for oleObject element (Part 1, §18.3.1.59)             | 225        |
| 15.9.13    | Changed attribute for pageSetup element (Part 1, §18.3.1.63)             | 225        |
| 15.9.14    | Changed attribute for pageSetup element (Part 1, §18.3.1.64)             | 225        |
| 15.9.15    | Changed attribute for picture element (Part 1, §18.3.1.67)               | 226        |
| 15.9.16    | Changed attribute for pivotSelection element (Part 1, §18.3.1.69)        | 226        |
| 15.9.17    | Changed attribute for tablePart element (Part 1, §18.3.1.94)             | 226        |
| 15.9.18    | Changed attribute for pivotCacheDefinition element (Part 1, §18.10.1.67) | 226        |
| 15.9.19    | Changed attribute for rangeSet element (Part 1, §18.10.1.79)             | 226        |

|            |                                                                     |            |
|------------|---------------------------------------------------------------------|------------|
| 15.9.20    | Changed attribute for worksheetSource element (Part 1, §18.10.1.95) | 227        |
| 15.9.21    | Changed attribute for header element (Part 1, §18.11.1.1)           | 227        |
| 15.9.22    | Changed attribute for externalBook element (Part 1, §18.14.7)       | 227        |
| 15.9.23    | Changed attribute for oleLink element (Part 1, §18.14.11)           | 227        |
| <b>16.</b> | <b>PresentationML Reference Material</b>                            | <b>229</b> |
| 16.1       | Table of Contents                                                   | 229        |
| 16.2       | Presentation                                                        | 230        |
| 16.2.1     | Presentation Properties                                             | 230        |
| 16.3       | Slides                                                              | 239        |
| 16.3.1     | Embedded Objects                                                    | 239        |
| 16.4       | Simple Types                                                        | 239        |
| 16.4.1     | ST_WebColorType (HTML Slide Navigation Control Colors)              | 239        |
| 16.4.2     | ST_WebEncoding (Web Encoding)                                       | 240        |
| 16.4.3     | ST_WebScreenSize (HTML/Web Screen Size Target)                      | 240        |
| 16.5       | Changed attributes                                                  | 241        |
| 16.5.1     | Changed attribute for bold element (Part 1, §19.2.1.1)              | 241        |
| 16.5.2     | Changed attribute for boldItalic element (Part 1, §19.2.1.2)        | 241        |
| 16.5.3     | Changed attribute for font element (Part 1, §19.2.1.13)             | 241        |
| 16.5.4     | Changed attribute for handoutMasterId element (Part 1, §19.2.1.14)  | 244        |
| 16.5.5     | Changed attribute for italic element (Part 1, §19.2.1.16)           | 244        |
| 16.5.6     | Changed attribute for notesMasterId element (Part 1, §19.2.1.20)    | 244        |
| 16.5.7     | Changed attribute for notesSz element (Part 1, §19.2.1.22)          | 244        |
| 16.5.8     | Changed attribute for regular element (Part 1, §19.2.1.29)          | 245        |
| 16.5.9     | Changed attribute for sld element (Part 1, §19.2.1.31)              | 245        |
| 16.5.10    | Changed attribute for sldId element (Part 1, §19.2.1.33)            | 246        |
| 16.5.11    | Changed attribute for sldMasterId element (Part 1, §19.2.1.36)      | 246        |
| 16.5.12    | Changed attribute for SmartTags element (Part 1, §19.2.1.40)        | 246        |
| 16.5.13    | Changed attribute for gridSpacing element (Part 1, §19.2.2.3)       | 246        |
| 16.5.14    | Changed attribute for origin element (Part 1, §19.2.2.9)            | 247        |
| 16.5.15    | Changed attribute for sld element (Part 1, §19.2.2.14)              | 247        |
| 16.5.16    | Changed attribute for bgRef element (Part 1, §19.3.1.3)             | 248        |
| 16.5.17    | Changed attribute for blipFill element (Part 1, §19.3.1.4)          | 248        |
| 16.5.18    | Changed attribute for clrMap element (Part 1, §19.3.1.6)            | 248        |
| 16.5.19    | Changed attribute for cNvPicPr element (Part 1, §19.3.1.11)         | 250        |
| 16.5.20    | Changed attribute for cNvPr element (Part 1, §19.3.1.12)            | 250        |
| 16.5.21    | Changed attribute for cNvSpPr element (Part 1, §19.3.1.13)          | 252        |
| 16.5.22    | Changed attribute for contentPart element (Part 1, §19.3.1.14)      | 252        |
| 16.5.23    | Changed attribute for custData element (Part 1, §19.3.1.17)         | 253        |
| 16.5.24    | Changed attribute for grpSpPr element (Part 1, §19.3.1.23)          | 253        |
| 16.5.25    | Changed attribute for sldLayoutId element (Part 1, §19.3.1.40)      | 253        |
| 16.5.26    | Changed attribute for spPr element (Part 1, §19.3.1.44)             | 253        |
| 16.5.27    | Changed attribute for tags element (Part 1, §19.3.1.47)             | 254        |
| 16.5.28    | Changed attribute for xfrm element (Part 1, §19.3.1.53)             | 254        |
| 16.5.29    | Changed attribute for control element (Part 1, §19.3.2.1)           | 255        |
| 16.5.30    | Changed attribute for oleObj element (Part 1, §19.3.2.4)            | 255        |
| 16.5.31    | Changed attribute for pos element (Part 1, §19.4.5)                 | 255        |
| 16.5.32    | Changed attribute for snd element (Part 1, §19.5.68)                | 256        |

|            |                                                                    |            |
|------------|--------------------------------------------------------------------|------------|
| 16.5.33    | Changed attribute for sndTgt element (Part 1, §19.5.70)            | 256        |
| <b>17.</b> | <b>DrawingML - Framework Reference Material</b>                    | <b>258</b> |
| 17.1       | DrawingML - Main                                                   | 258        |
| 17.1.1     | Table of Contents                                                  | 258        |
| 17.1.2     | Simple Types                                                       | 258        |
| 17.2       | DrawingML - Legacy Compatibility                                   | 262        |
| 17.2.1     | Table of Contents                                                  | 262        |
| 17.2.2     | Basics                                                             | 263        |
| 17.3       | Changed attributes                                                 | 264        |
| 17.3.1     | Changed attribute for hlinkHover element (Part 1, §20.1.2.2.23)    | 264        |
| 17.3.2     | Changed attribute for snd element (Part 1, §20.1.2.2.32)           | 265        |
| 17.3.3     | Changed attribute for audioFile element (Part 1, §20.1.3.2)        | 265        |
| 17.3.4     | Changed attribute for quickTimeFile element (Part 1, §20.1.3.4)    | 265        |
| 17.3.5     | Changed attribute for videoFile element (Part 1, §20.1.3.6)        | 265        |
| 17.3.6     | Changed attribute for wavAudioFile element (Part 1, §20.1.3.7)     | 266        |
| 17.3.7     | Changed attribute for blip element (Part 1, §20.1.8.13)            | 266        |
| 17.3.8     | Changed attribute for blipFill element (Part 1, §20.2.2.1)         | 266        |
| 17.3.9     | Changed attribute for cNvPicPr element (Part 1, §20.2.2.2)         | 267        |
| 17.3.10    | Changed attribute for cNvPr element (Part 1, §20.2.2.3)            | 267        |
| 17.3.11    | Changed attribute for spPr element (Part 1, §20.2.2.6)             | 269        |
| 17.3.12    | Changed attribute for docPr element (Part 1, §20.4.2.5)            | 269        |
| 17.3.13    | Changed attribute for extent element (Part 1, §20.4.2.7)           | 271        |
| 17.3.14    | Changed attribute for lineTo element (Part 1, §20.4.2.9)           | 272        |
| 17.3.15    | Changed attribute for simplePos element (Part 1, §20.4.2.13)       | 272        |
| 17.3.16    | Changed attribute for start element (Part 1, §20.4.2.14)           | 273        |
| 17.3.17    | Changed attribute for blipFill element (Part 1, §20.5.2.2)         | 274        |
| 17.3.18    | Changed attribute for cNvPicPr element (Part 1, §20.5.2.7)         | 274        |
| 17.3.19    | Changed attribute for cNvPr element (Part 1, §20.5.2.8)            | 275        |
| 17.3.20    | Changed attribute for cNvSpPr element (Part 1, §20.5.2.9)          | 276        |
| 17.3.21    | Changed attribute for contentPart element (Part 1, §20.5.2.12)     | 277        |
| 17.3.22    | Changed attribute for ext element (Part 1, §20.5.2.14)             | 277        |
| 17.3.23    | Changed attribute for grpSpPr element (Part 1, §20.5.2.18)         | 278        |
| 17.3.24    | Changed attribute for pos element (Part 1, §20.5.2.26)             | 278        |
| 17.3.25    | Changed attribute for spPr element (Part 1, §20.5.2.30)            | 279        |
| 17.3.26    | Changed attribute for xfrm element (Part 1, §20.5.2.36)            | 279        |
| <b>18.</b> | <b>DrawingML - Components Reference Material</b>                   | <b>281</b> |
| 18.1       | DrawingML - Charts                                                 | 281        |
| 18.1.1     | Table of Contents                                                  | 281        |
| 18.1.2     | Elements                                                           | 282        |
| 18.1.3     | Simple Types                                                       | 283        |
| 18.2       | Changed attributes                                                 | 286        |
| 18.2.1     | Changed attribute for hlinkClick element (Part 1, §21.1.2.3.5)     | 286        |
| 18.2.2     | Changed attribute for hlinkMouseOver element (Part 1, §21.1.2.3.6) | 287        |
| 18.2.3     | Changed attribute for chart element (Part 1, §21.2.2.26)           | 287        |
| 18.2.4     | Changed attribute for clrMapOvr element (Part 1, §21.2.2.30)       | 287        |
| 18.2.5     | Changed attribute for externalData element (Part 1, §21.2.2.63)    | 289        |
| 18.2.6     | Changed attribute for spPr element (Part 1, §21.2.2.197)           | 289        |

|                                                           |                                                                     |            |
|-----------------------------------------------------------|---------------------------------------------------------------------|------------|
| 18.2.7                                                    | Changed attribute for userShapes element (Part 1, §21.2.2.221)..... | 289        |
| 18.2.8                                                    | Changed attribute for blipFill element (Part 1, §21.3.2.2).....     | 290        |
| 18.2.9                                                    | Changed attribute for cNvPicPr element (Part 1, §21.3.2.6).....     | 290        |
| 18.2.10                                                   | Changed attribute for cNvPr element (Part 1, §21.3.2.7).....        | 290        |
| 18.2.11                                                   | Changed attribute for cNvSpPr element (Part 1, §21.3.2.8).....      | 292        |
| 18.2.12                                                   | Changed attribute for ext element (Part 1, §21.3.2.10).....         | 292        |
| 18.2.13                                                   | Changed attribute for grpSpPr element (Part 1, §21.3.2.14).....     | 293        |
| 18.2.14                                                   | Changed attribute for spPr element (Part 1, §21.3.2.23).....        | 293        |
| 18.2.15                                                   | Changed attribute for xfrm element (Part 1, §21.3.2.28).....        | 294        |
| 18.2.16                                                   | Changed attribute for rellds element (Part 1, §21.4.2.22).....      | 294        |
| 18.2.17                                                   | Changed attribute for shape element (Part 1, §21.4.2.27).....       | 295        |
| 18.2.18                                                   | Changed attribute for spPr element (Part 1, §21.4.3.7).....         | 296        |
| 18.2.19                                                   | Changed attribute for sp3d element (Part 1, §21.4.5.6).....         | 296        |
| <b>19.</b>                                                | <b>VML Reference Material .....</b>                                 | <b>299</b> |
| 19.1                                                      | VML.....                                                            | 299        |
| 19.1.1                                                    | Table of Contents.....                                              | 300        |
| 19.1.2                                                    | Elements .....                                                      | 301        |
| 19.1.3                                                    | Simple Types .....                                                  | 689        |
| 19.2                                                      | VML - Office Drawing.....                                           | 697        |
| 19.2.1                                                    | Table of Contents.....                                              | 698        |
| 19.2.2                                                    | Elements .....                                                      | 699        |
| 19.2.3                                                    | Simple Types .....                                                  | 825        |
| 19.3                                                      | VML - WordprocessingML Drawing.....                                 | 837        |
| 19.3.1                                                    | Table of Contents.....                                              | 838        |
| 19.3.2                                                    | Elements .....                                                      | 839        |
| 19.3.3                                                    | Simple Types .....                                                  | 847        |
| 19.4                                                      | VML - SpreadsheetML Drawing.....                                    | 854        |
| 19.4.1                                                    | Table of Contents.....                                              | 855        |
| 19.4.2                                                    | Elements .....                                                      | 857        |
| 19.4.3                                                    | Simple Types .....                                                  | 891        |
| 19.5                                                      | VML - PresentationML Drawing.....                                   | 893        |
| 19.5.1                                                    | Table of Contents.....                                              | 893        |
| 19.5.2                                                    | Elements .....                                                      | 894        |
| <b>20.</b>                                                | <b>Shared MLs Reference Material.....</b>                           | <b>896</b> |
| 20.1                                                      | Shared Simple Types.....                                            | 896        |
| 20.1.1                                                    | Table of Contents.....                                              | 896        |
| 20.1.2                                                    | Simple Types .....                                                  | 896        |
| 20.2                                                      | Extended Properties (Part 1, §22.2) .....                           | 903        |
| 20.3                                                      | Custom Properties (Part 1, §22.3) .....                             | 903        |
| 20.4                                                      | Changed attributes .....                                            | 904        |
| 20.4.1                                                    | Changed attribute for sources element (Part 1, §22.6.2.60).....     | 904        |
| <b>Annex A. (normative) Schemas – W3C XML Schema.....</b> |                                                                     | <b>905</b> |
| A.1                                                       | WordprocessingML.....                                               | 905        |
| A.2                                                       | SpreadsheetML.....                                                  | 974        |
| A.3                                                       | PresentationML .....                                                | 1059       |
| A.4                                                       | DrawingML - Framework .....                                         | 1091       |



|                                                       |                                            |             |
|-------------------------------------------------------|--------------------------------------------|-------------|
| A.4.1                                                 | DrawingML - Main.....                      | 1091        |
| A.4.2                                                 | DrawingML - Picture .....                  | 1149        |
| A.4.3                                                 | DrawingML - Legacy Compatibility .....     | 1150        |
| A.4.4                                                 | DrawingML - Locked Canvas .....            | 1150        |
| A.4.5                                                 | DrawingML - WordprocessingML Drawing ..... | 1150        |
| A.4.6                                                 | DrawingML - SpreadsheetML Drawing .....    | 1154        |
| A.5                                                   | DrawingML - Components .....               | 1158        |
| A.5.1                                                 | DrawingML - Charts .....                   | 1158        |
| A.5.2                                                 | DrawingML - Chart Drawings .....           | 1186        |
| A.5.3                                                 | DrawingML - Diagrams.....                  | 1189        |
| A.6                                                   | VML.....                                   | 1210        |
| A.6.1                                                 | VML .....                                  | 1210        |
| A.6.2                                                 | VML - Office Drawing .....                 | 1221        |
| A.6.3                                                 | VML - WordprocessingML Drawing .....       | 1231        |
| A.6.4                                                 | VML - SpreadsheetML Drawing .....          | 1233        |
| A.6.5                                                 | VML - PresentationML Drawing.....          | 1235        |
| A.7                                                   | Shared MLs .....                           | 1235        |
| A.7.1                                                 | Math.....                                  | 1235        |
| A.7.2                                                 | Extended Properties.....                   | 1246        |
| A.7.3                                                 | Custom Properties .....                    | 1247        |
| A.7.4                                                 | Variant Types .....                        | 1248        |
| A.7.5                                                 | Custom XML Data Properties.....            | 1252        |
| A.7.6                                                 | Bibliography .....                         | 1253        |
| A.7.7                                                 | Additional Characteristics .....           | 1255        |
| A.7.8                                                 | Office Document Relationships .....        | 1256        |
| A.7.9                                                 | Shared Simple Types .....                  | 1257        |
| A.8                                                   | Custom XML Schema References .....         | 1260        |
| <b>Annex B. (informative) Schemas – RELAX NG.....</b> |                                            | <b>1261</b> |
| B.1                                                   | WordprocessingML.....                      | 1261        |
| B.1.1                                                 | Part Schemas.....                          | 1305        |
| B.2                                                   | SpreadsheetML.....                         | 1312        |
| B.2.1                                                 | Part Schemas.....                          | 1400        |
| B.3                                                   | PresentationML .....                       | 1408        |
| B.3.1                                                 | Part Schemas.....                          | 1431        |
| B.4                                                   | DrawingML - Framework .....                | 1435        |
| B.4.1                                                 | DrawingML - Main.....                      | 1435        |
| B.4.2                                                 | DrawingML - Picture .....                  | 1480        |
| B.4.3                                                 | DrawingML - Locked Canvas .....            | 1480        |
| B.4.4                                                 | DrawingML - Wordprocessing Drawing .....   | 1480        |
| B.4.5                                                 | DrawingML - Spreadsheet Drawing .....      | 1483        |
| B.5                                                   | DrawingML - Components .....               | 1485        |
| B.5.1                                                 | DrawingML - Chart .....                    | 1485        |
| B.5.2                                                 | DrawingML - Chart Drawing.....             | 1504        |
| B.5.3                                                 | DrawingML - Diagrams.....                  | 1506        |
| B.6                                                   | VML.....                                   | 1522        |
| B.6.1                                                 | VML - Main.....                            | 1522        |
| B.6.2                                                 | VML - Office Drawing .....                 | 1530        |

|                                                                                         |                                     |             |
|-----------------------------------------------------------------------------------------|-------------------------------------|-------------|
| B.6.3                                                                                   | VML - Wordprocessing Drawing .....  | 1537        |
| B.6.4                                                                                   | VML - Spreadsheet Drawing .....     | 1539        |
| B.6.5                                                                                   | VML - Presentation Drawing .....    | 1541        |
| B.6.6                                                                                   | Part Schemas .....                  | 1541        |
| B.7                                                                                     | Shared MLs .....                    | 1543        |
| B.7.1                                                                                   | Math .....                          | 1543        |
| B.7.2                                                                                   | Extended Properties .....           | 1548        |
| B.7.3                                                                                   | Custom Properties .....             | 1549        |
| B.7.4                                                                                   | Variant Types .....                 | 1550        |
| B.7.5                                                                                   | Custom XML Data Properties .....    | 1554        |
| B.7.6                                                                                   | Bibliography .....                  | 1554        |
| B.7.7                                                                                   | Additional Characteristics .....    | 1557        |
| B.7.8                                                                                   | Office Document Relationships ..... | 1557        |
| B.7.9                                                                                   | Shared Simple Types .....           | 1558        |
| B.8                                                                                     | Custom XML Schema References .....  | 1560        |
| B.9                                                                                     | Additional Resources .....          | 1560        |
| B.9.1                                                                                   | Any .....                           | 1560        |
| B.9.2                                                                                   | XML .....                           | 1560        |
| <b>Annex C. (informative) Namespace Prefix Mapping in Examples .....</b>                |                                     | <b>1561</b> |
| <b>Annex D. (informative) Differences Between ISO/IEC 29500 and ECMA-376:2006 .....</b> |                                     | <b>1563</b> |



# Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

ISO/IEC 29500-4 was prepared by ISO/IEC JTC 1, Information technology, Subcommittee SC 34, Document description and processing languages.

This second edition cancels and replaces the first edition (ISO/IEC 29500-4:2008), which has been technically revised by incorporation of the Amendment ISO/IEC 29500-4:2008/Amd.1:2010 and the Technical Corrigendum ISO/IEC 29500-4:2008/Cor.1:2010.

ISO/IEC 29500 consists of the following parts, under the general title *Information technology — Document description and processing languages — Office Open XML File Formats*:

- *Part 1: Fundamentals and Markup Language Reference*
- *Part 2: Open Packaging Conventions*
- *Part 3: Markup Compatibility and Extensibility*
- *Part 4: Transitional Migration Features*

Annex A forms a normative part of this Part of ISO/IEC 29500. Annexes B, C, and D are for information only.

This Part of ISO/IEC 29500 includes two annexes (Annex A and Annex B) that refer to data files provided in electronic form.

# Introduction

ISO/IEC 29500 specifies a family of XML schemas, collectively called *Office Open XML*, which define the XML vocabularies for word-processing, spreadsheet, and presentation documents, as well as the packaging of documents that conform to these schemas.

The goal is to enable the implementation of the Office Open XML formats by the widest set of tools and platforms, fostering interoperability across office productivity applications and line-of-business systems, as well as to support and strengthen document archival and preservation, all in a way that is fully compatible with the existing corpus of Microsoft Office documents.

The intent of this Part of ISO/IEC 29500 is to enable a transitional period during which existing binary documents being migrated to ISO/IEC 29500 can make use of legacy features to preserve their fidelity, while noting that new documents should not use them. Part 1, §2.4, “Document Conformance”, notes that WML Strict, SML Strict and PML Strict documents do not use any of the features defined in Part 4.

This Part of ISO/IEC 29500 is normative for the current edition of ISO/IEC 29500, but is not guaranteed to be included in future revisions of that Standard. The intent is to enable the group responsible for maintenance of ISO/IEC 29500 to choose, at a later date, to remove this set of features from a revised version of that Standard.

In general, this Part of ISO/IEC 29500 augments Part 1 and inherits the provisions of that Part. Exceptions to this are indicated explicitly.

The following organizations have participated in the creation of ISO/IEC 29500 and their contributions are gratefully acknowledged:

Apple, Barclays Capital, BP, The British Library, Essilor, Intel, Microsoft, NextPage, Novell, Statoil, Toshiba, and the United States Library of Congress.

# Information technology — Document description and processing languages — Office Open XML File Formats

## Part 4:

## Transitional Migration Features

### 1. Scope

ISO/IEC 29500 defines a set of XML vocabularies for representing word-processing documents, spreadsheets and presentations. On the one hand, the goal of ISO/IEC 29500 is to represent faithfully the existing corpus of word-processing documents, spreadsheets and presentations that have been produced by Microsoft Office applications (from Microsoft Office 97 to Microsoft Office 2008, inclusive). It also specifies requirements for Office Open XML consumers and producers. On the other hand, the goal is to facilitate extensibility and interoperability by enabling implementations by multiple vendors and on multiple platforms.

This Part of ISO/IEC 29500 defines features for backward-compatibility and that are useful for high-quality migration of existing binary documents to ISO/IEC 29500. These features are used only by documents of conformance class WML Transitional (§2.1), SML Transitional (§2.1), or PML Transitional (§2.1). These features are sometimes needed for high-quality migration of existing binary documents to ISO/IEC 29500.

## 2. Conformance

### 2.1 Document Conformance

Document conformance is purely syntactic.

- A conforming document shall conform to the transitional W3C XML Schema, and any additional syntax constraints.
- The document shall be of category Wordprocessing, Spreadsheet, or Presentation (see Part 1, §4).
- The document character set shall conform to the Unicode Standard and ISO/IEC 10646, with either the UTF-8 or UTF-16 encoding form, as required by the XML 1.0 standard.
- Any XML element or attribute not explicitly included in ISO/IEC 29500 shall use the extensibility mechanisms described by ISO/IEC 29500-1 and ISO/IEC 29500-3.

Each Part of this multi-part standard has its own conformance clause. The term *conformance class* is used to disambiguate conformance within different Parts of this multi-part standard. This Part of ISO/IEC 29500 defines the following document conformance classes:

- *WML Transitional*, if the document is a conforming document of category Wordprocessing that conforms to the transitional schema.
- *SML Transitional*, if the document is a conforming document of category Spreadsheet that conforms to the transitional schema.
- *PML Transitional*, if the document is a conforming document of category Presentation that conforms to the transitional schema.

[Note: Other document conformance classes could be defined in the future. *end note*]

[Note: A document cannot be of more than one of the above conformance classes. *end note*]

A document of a transitional conformance class shall not use relationship types

<http://purl.oclc.org/ooxml/officeDocument/relationships/...> but shall use

<http://schemas.openxmlformats.org/officeDocument/2006/relationships/...> instead.

### 2.2 Application Conformance

Application conformance incorporates both syntax and semantics.

- A conforming consumer shall not reject any conforming documents of at least one document conformance class.
- A conforming producer shall be able to produce conforming documents of at least one document conformance class.

- A conforming application shall treat the information in Office Open XML documents in a manner consistent with the semantic definitions given in ISO/IEC 29500. An application's intended behavior need not require that application to process all of the information in an Office Open XML document. However, the information that it does process shall be processed in a manner that is consistent with the semantic definitions given in ISO/IEC 29500.

[*Note:* This note illustrates the third bullet above. Conforming applications might serve various functions. Examples include a viewer, an editor, and a back-end processor. Here is an illustration of how the third bullet applies to each of those examples:

- If a conforming viewer supports a given feature, then when it displays information using that feature, it respects the semantics of that feature as described in the Standard.
- If a conforming editor supports a given feature, then when it provides its user with an interface for manipulating information using that feature, it respects the semantics of that feature as described in the Standard.
- If a conforming back-end processor supports a given feature, then when that processor transforms or assembles information involving that feature, that processor respects the semantics of that feature as described in the Standard.

*end note]*

This Part of ISO/IEC 29500 defines the following application conformance classes:

- *WML Transitional*, if the application is a conforming application that is a consumer or producer of documents having conformance class WML Transitional.
- *SML Transitional*, if the application is a conforming application that is a consumer or producer of documents having conformance class SML Transitional.
- *PML Transitional*, if the application is a conforming application that is a consumer or producer of documents having conformance class PML Transitional.

### 3. Normative References

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ANSI X3.4-1986, *American Standard Code for Information Interchange (ASCII)*

Bureau of Standards, Metrology and Inspection of the Ministry of Economic Affairs, *CNS 7648: Data Elements and Interchange Formats — Information Interchange — Representation of Dates and Times*

Calendar Reform Committee, *Indian Ephemeris and Nautical Almanac*. 1957

Stokes, M., M. Anderson, S. Chandrasekar, and R. Motta. *A Standard Default color Space for the Internet*. Vers. 1.10. November 5, 1996. <http://www.w3.org/Graphics/Color/sRGB>

Har'El, Zvi, *Gauss Formula for the Julian Date of Passover*. Department of Mathematics, Technion, Israel Institute of Technology, Haifa 32000, Israel, 2005, 6

Duerst, M, and M Suignard. *Internationalized Resource Identifiers (IRIs)*. IETF. January 2005.  
<http://tools.ietf.org/html/rfc3987>

IANA, *Character Sets from IANA*, as specified at <http://www.iana.org/assignments/character-sets>

IANA. *MIME Media Types*. Internet Assigned Numbers Authority. <http://www.iana.org/assignments/media-types/>

IEC 60559:1989, *Binary Floating-Point Arithmetic for Microprocessor Systems*

ISO/IEC 2382-1:1993, *Information technology — Vocabulary — Part 1: Fundamental terms*

ISO 8601:2004, *Data elements and interchange formats — Information interchange — Representation of dates and times*

ISO/IEC 8859-1:1998, *Information technology — 8-bit single-byte coded graphic character sets — Part 1: Latin alphabet No. 1* (referred to in ISO/IEC 29500 as the ANSI character set)

ISO/IEC 9075-1, *Information technology — Database languages — SQL — Part 1: Framework (SQL/Framework)*

ISO/IEC 10118-3:2004, *Information technology — Security techniques — Hash-functions — Part 3: Dedicated hash-functions*.

ISO/IEC 10646, *Information technology — Universal Coded Character Set (UCS)*.

ISO/IEC 14496-22:2009, *Information technology — Coding of audio-visual objects — Part 22: Open Font Format*

ISO/IEC 29500-1:2011, *Information technology — Document description and processing languages — Office Open XML File Formats, Part 1: Fundamentals and Markup Language Reference*.

Japanese Industrial Standard, JIS X 0301: *Data elements and interchange formats — Information interchange — Representation of dates and times*. Japan, 2002.

Kingdom of Saudi Arabia, Ministry of Islamic Affairs, Endowments, Da'wah and Guidance.

Korean Law Enactment No. 4, 1961.

Faure, D. (n.d.). *Creating and Using Components (KParts)*. <http://techbase.kde.org/Projects/Documentation>.

Maimon, Rabbi Moshe ben, *Complete Restatement of the Oral Law (Mishneh Torah)*.

Ausbrooks, Ron, et al. *Mathematical Markup Language (MathML) Version 2.0 (Second Edition)*. October 21, 2003. <http://www.w3.org/TR/MathML/>.

Kaliski, B. *The MD2 Message-Digest Algorithm*. April 1992. <http://www.ietf.org/rfc/rfc1319.txt>

Rivest, R. *The MD4 Message-Digest Algorithm*. April 1992. <http://www.ietf.org/rfc/rfc1320.txt>

*The MD5 Message-Digest Algorithm*. April 1992. <http://www.ietf.org/rfc/rfc1321.txt>

*National Measurement Regulations 1999*, Commonwealth of Australia  
<http://www.comlaw.gov.au/Details/F2011C00445>

*NIST Guide to SI Units*, <http://physics.nist.gov/Pubs/SP811/appenB9.html>

*QuickTime File Format Specification* (2007-09-04 version)  
<http://developer.apple.com/standards/classicquicktime.html>

*Resource Description Framework (RDF)*, <http://www.w3.org/RDF/>

RFC 822, *Standard for ARPA Internet Text Messages* (<http://www.ietf.org/rfc/rfc0822.txt>)

RFC 2045, Borenstein, N., and N. Freed. *Multipurpose Internet Mail Extensions (MIME) Part One: Format of Internet Message Bodies*. The Internet Society. 1996. <http://www.ietf.org/rfc/rfc2045.txt>

RFC 2119, Bradner, Scott, 1997: *Key words for use in RFCs to Indicate Requirement Levels*.  
<http://www.ietf.org/rfc/rfc2119.txt>

RFC 2616, Berners-Lee, T., R. Fielding, H. Frystyk, J. Gettys, P. Leach, L. Masinter, and J. Mogul. *Hypertext Transfer Protocol—HTTP/1.1*. The Internet Society. 1999. <http://www.ietf.org/rfc/rfc2616.txt>

RFC 3066, Alvestrand, H. *Tags for the Identification of Languages*. The Internet Society. 2001.  
<http://www.ietf.org/rfc/rfc3066.txt>

RFC 3339, Klyne, G. and C. Newman. *Date and Time on the Internet: Timestamps*. The Internet Society. 2002.  
<http://www.ietf.org/rfc/rfc3339.txt>

RFC 3629, Yergeau, F. *UTF-8, a transformation format of ISO 10646*. The Internet Society. 2003.  
<http://www.ietf.org/rfc/rfc3629.txt>

RFC 3986, Berners-Lee, T., R. Fielding, and L. Masinter. *Uniform Resource Identifier (URI): Generic Syntax*. The Internet Society. 2005. <http://www.ietf.org/rfc/rfc3986.txt>

*Simple Object Access Protocol (SOAP)*, <http://www.w3.org/TR/soap12>

SMIL, Bulterman, D., Grassel, G., Jansen, J., Koivisto, A., Layaïda, N., Michel, T., et al. (2005, December 13). *Synchronized Multimedia Integration Language (SMIL 2.1)*. Retrieved from W3C: <http://www.w3.org/TR/SMIL/>

SVG, Andersson, O., Armstrong, P., Axelsson, H., Berjon, R., Bézaire, B., Bowler, J., et al. (2003, January 14). *Scalable Vector Graphics (SVG) 1.1 Specification*. Retrieved from W3C - World Wide Web Consortium: <http://www.w3.org/TR/SVG/>

The GNOME Project. (2003, December 12). *Component Model - Bonobo Document Model*. Retrieved from The GNOME Development Site: <http://developer.gnome.org/bonobo-activation/stable/>

The Unicode Consortium. *The Unicode Standard*, <http://www.unicode.org/standard/standard.html>

Unicode Technical Report #25, <http://www.unicode.org/reports/tr25/>

Unicode Technical Note #28, *Nearly Plain-Text Encoding of Mathematics*. August 29, 2006,  
<http://www.unicode.org/notes/tn28>

United States Postal Service. *Domestic Mail Manual*. United States Postal Service. November 8, 2007.  
<http://pe.usps.com/cpim/ftp/manuals/dmm300/Full/MailingStandards.pdf>

*The Units of Measurement Regulations 1995*, United Kingdom  
[http://www.opsi.gov.uk/si/si1995/Uksi\\_19951804\\_en\\_2.htm](http://www.opsi.gov.uk/si/si1995/Uksi_19951804_en_2.htm)

Universal Postal Union. *POST\*CODE: Postal addressing systems*. Berne: UPU Publications, 2006, ISBN 92-95025-37-7, ISSN 1020-6019

*Web Accessibility Initiative (WAI)*, <http://www.w3.org/WAI/>

XSLT, Clark, James, *XSL Transformations (XSLT) Version 1.0*, World Wide Web Consortium Recommendation. 1999. <http://www.w3.org/TR/xslt>

XML, Tim Bray, Jean Paoli, Eve Maler, C. M. Sperberg-McQueen, and François Yergeau (editors). *Extensible Markup Language (XML) 1.0*, Fourth Edition.1 World Wide Web Consortium. 2006.  
<http://www.w3.org/TR/2006/REC-xml-20060816/> [Implementers should be aware that a further correction of the normative reference to XML to refer to the 5th Edition will be necessary when the related Reference



Specifications to which this International Standard also makes normative reference and which also depend upon XML, such as XSLT, XML Namespaces and XML Base, are all aligned with the 5th Edition.]

XML Base, Marsh, Jonathan. *XML Base*. World Wide Web Consortium. 2001. <http://www.w3.org/TR/2001/REC-xmlbase-20010627/>

XML Namespaces, Tim Bray, Dave Hollander, Andrew Layman, and Richard Tobin (editors). *Namespaces in XML 1.0 (Third Edition)*, 8 December 2009. World Wide Web Consortium. <http://www.w3.org/TR/2009/REC-xml-names-20091208/>

XPATH, Clark, James; DeRose, Steve. *XML Path Language (XPath) Version 1.0*, World Wide Web Consortium Recommendation. 1999. <http://www.w3.org/TR/xpath>.

*XML Schema Part 0: Primer (Second Edition)*, W3C Recommendation 28 October 2004, <http://www.w3.org/TR/xmlschema-0/>

*XML Schema Part 1: Structures (Second Edition)*, W3C Recommendation 28 October 2004, <http://www.w3.org/TR/xmlschema-1/>

*XML Schema Part 2: Datatypes (Second Edition)*, W3C Recommendation 28 October 2004, <http://www.w3.org/TR/xmlschema-2/>

*.ZIP File Format Specification* from PKWARE, Inc., version 6.2.0 (2004), as specified in [http://www.pkware.com/documents/APPNOTE/APPNOTE\\_6.2.0](http://www.pkware.com/documents/APPNOTE/APPNOTE_6.2.0).

## 4. Terms and Definitions

For the purposes of this document, the following terms and definitions apply. Other terms are defined where they appear in *italic* typeface, on the left side of a syntax rule, or within subclauses of language-specific grammars. Terms explicitly defined in this Part of ISO/IEC 29500 are not to be presumed to refer implicitly to similar terms defined elsewhere. [Note: This part uses OPC-related terms, which are defined in ISO/IEC 29500-2. *end note*]

**application** — A consumer or producer.

**behavior** — External appearance or action.

**behavior, implementation-defined** — Unspecified behavior where each implementation is expected to document that behavior, which would thereby promote predictability and reproducibility within any given implementation. (This term is sometimes called “application-defined behavior”.)

**behavior, locale-specific** — Behavior that depends on local conventions of nationality, culture, and language.

**behavior, unspecified** — Behavior where ISO/IEC 29500 makes no recommendations. [Note: To add an extension, an implementer must use the extensibility mechanisms described by ISO/IEC 29500 rather than trying to do so by giving meaning to otherwise unspecified behavior. *end note*]

**comment** — A note that an author or reviewer attaches to content in a document. Although a consumer might choose to display comments, they are not considered part of the body of the document. A comment might include the text of the note, the comment author's name and initials, and date of creation, among other things.

**consumer** — A piece of software or a device that reads packages through a package implementer. A consumer is often designed to consume packages only for a specific physical package format.

**content type** — Describes the content stored in a part. Content types define a media type, a subtype, and an optional set of parameters, as defined in RFC 2616.

**document category** — One of the three categories of Office Open XML documents: Wordprocessing, Spreadsheet, and Presentation, defined as follows:

- A document whose package-relationship item contains a relationship to a Main Document part (Part 1, §11.3.10) is a document of category Wordprocessing.
- A document whose package-relationship item contains a relationship to a Workbook part (Part 1, §12.3.23) is a document of category Spreadsheet.

- A document whose package-relationship item contains a relationship to a Presentation part (Part 1, §13.3.6) is a document of category Presentation.

An Office Open XML document can contain one or more embedded Office Open XML packages (Part 1, §15.2.11) with each embedded package having any of the three document categories. However, the presence of these embedded packages does not change the category of the document.

**DrawingML** — A set of conventions for specifying the location and appearance of drawing elements in an Office Open XML document.

**extension** — Any XML element, XML attribute, relationship, or part not explicitly included in ISO/IEC 29500, but that uses the extensibility mechanisms described by ISO/IEC 29500.

**Office Open XML document** — A rendition of a data stream formatted using the wordprocessing, spreadsheet, or presentation ML and its related MLs as described in ISO/IEC 29500-1 and ISO/IEC 29500-4. Such a document is represented as a package as described in ISO/IEC 29500-2.

**package** — A ZIP archive that conforms to the Open Packaging Conventions specification defined in ISO/IEC 29500-2.

**package, embedded** — A package that has been stored as the target of an Embedded Package relationship (Part 1, §15.2.11) in an Office Open XML document

**PresentationML** — A set of conventions for representing an Office Open XML document of category Presentation.

**producer** — A piece of software or a device that writes packages through a package implementer. A producer is often designed to produce packages according to a particular physical package format specification.

**relationship** — The kind of connection between a source part and a target part in a package. Relationships make the connections between parts directly discoverable without looking at the content in the parts, and without altering the parts themselves. (See also Package Relationships.)

**relationships part** — A part containing an XML representation of relationships.

**relationship, explicit** — A relationship in which a resource is referenced from a source part's XML using the Id attribute of a Relationship tag.

**relationship, implicit** — A relationship that is not explicit.

**SpreadsheetML** — A set of conventions for representing an Office Open XML document of category Spreadsheet.

**WordprocessingML** — A set of conventions for representing an Office Open XML document of category Wordprocessing.

## 5. Notational Conventions

The following typographical conventions are used in this Part of ISO/IEC 29500:

1. The first occurrence of a new term is written in italics. [*Example*: The text in ISO/IEC 29500 is divided into *normative* and *informative* categories. *end example*]
2. In each definition of a term in §4 (Terms and Definitions), the term is written in bold. [*Example*: **behavior** — External appearance or action. *end example*]
3. The tag name of an XML element is written using an Element style. [*Example*: The `bookmarkStart` and `bookmarkEnd` elements specify ... *end example*]
4. The name of an XML attribute is written using an Attribute style. [*Example*: The `dropCap` attribute specifies ... *end example*]
5. The value of an XML attribute is written using a constant-width style. [*Example*: The attribute value of `auto` specifies ... *end example*]
6. The qualified or unqualified name of a simple type, complex type, or base datatype is written using a Type style. [*Example*: The possible values for this attribute are defined by the `ST_HexColor` simple type. *end example*]

## 6. Acronyms and Abbreviations

**This clause is informative.**

The following acronyms and abbreviations are used throughout ISO/IEC 29500:

IEC — the International Electrotechnical Commission

ISO — the International Organization for Standardization

W3C — World Wide Web Consortium

**End of informative text.**

STANDARDSISO.COM : Click to view the full PDF of ISO/IEC 29500-4:2011

## 7. General Description

This Part is intended for use by implementers, academics, and application programmers. As such, it contains a considerable amount of explanatory material that, strictly speaking, is not necessary in a formal specification.

This Part of ISO/IEC 29500 is divided into the following subdivisions:

1. Front matter (clauses 1–7);
2. Main body (clauses 8–20);
3. Annexes

Examples are provided to illustrate possible forms of the constructions described. References are used to refer to related clauses. Notes are provided to give advice or guidance to implementers or programmers. Rationale provides explanatory material as to why something is or is not in ISO/IEC 29500. Annexes provide additional information or summarize the information contained in ISO/IEC 29500.

The following form the normative pieces of this Part of ISO/IEC 29500:

- Introduction
- Clauses 1–5, 7, and 8–20
- Annex A

The following form the informative pieces of this Part of ISO/IEC 29500:

- Clause 6
- Annex B–Annex D
- All notes
- All examples

Except for whole clauses or annexes that are identified as being informative, informative text that is contained within normative text is indicated in the following ways:

1. [*Example*: code fragment, possibly with some narrative ... *end example*]
2. [*Note*: narrative ... *end note*]
3. [*Rationale*: narrative ... *end rationale*]
4. [*Guidance*: narrative ... *end guidance*]

Unless stated otherwise in this Part, the functionality defined in Part 1 is applicable to Part 4. However, Part 4 uses namespaces that are different from those used by Part 1. As such, when examples in Part 1 are read in the context of Part 4, they should be understood in the context of the corresponding Part 4 namespaces.

## 8. Additional Shared Parts

### 8.1 VML Drawing Part

|                      |                                                                                |
|----------------------|--------------------------------------------------------------------------------|
| Content Type:        | application/vnd.openxmlformats-officedocument.vmlDrawing                       |
| Root Namespace:      | not applicable                                                                 |
| Source Relationship: | http://schemas.openxmlformats.org/officeDocument/2006/relationships/vmlDrawing |

An instance of this part type contains markup in the Vector Markup Language (VML) syntax, which is used to provide an alternative image representation of objects stored in a SpreadsheetML or PresentationML document.

[*Note:* The VML format is a legacy format originally introduced with Office 2000 and is included and fully defined in ISO/IEC 29500 for backwards compatibility reasons. The DrawingML format is a newer and richer format created with the goal of eventually replacing any uses of VML in the Office Open XML formats. VML should be considered a deprecated format included in Office Open XML for legacy reasons only and new applications that need a file format for drawings are strongly encouraged to use preferentially DrawingML. *end note*]

A package is permitted to contain zero or more VML Drawing parts, each of which shall be the target of an explicit relationship in a Handout Master (Part 1, §13.3.3), Notes Slide (Part 1, §13.3.5), Notes Master (Part 1, §13.3.4), Slide (Part 1, §13.3.8), Slide Layout (Part 1, §13.3.9), or Slide Master (Part 1, §13.3.10) part in a PresentationML document; or a Dialogsheet (Part 1, §12.3.7) or Worksheet part (Part 1, §12.3.24) in a SpreadsheetML document.

[*Example:* The following SpreadsheetML's package-relationship item contains one relationship, for the VML Drawing part stored in the ZIP item ../drawings/drawing1.vml:

```
<Relationships xmlns="...">
  <Relationship Id="rId8"
    Type="http://.../vmlDrawing" Target="../drawings/drawing1.vml"/>
</Relationships>
```

*end example]*

The root element for a part of this content type shall be xml in the null namespace, encapsulating an arbitrary amount of VML markup as defined by ISO/IEC 29500.

[*Example*: Consider the following VML Drawing part:

```
<xml>
  <v:shape ...>
    ...
  </v:shape>
  ...
</xml>
```

*end example*]

A VML Drawing part shall be located within the package containing the relationships part (expressed syntactically, the TargetMode attribute of the Relationship element shall be Internal).

A VML Drawing part is permitted to have explicit relationships to the following parts defined by ISO/IEC 29500:

- Image (Part 1, §15.2.14)

A VML Drawing part shall not have implicit or explicit relationships to any other part defined by ISO/IEC 29500.



## 9. WordprocessingML

The following parts, which are defined in subclauses within Part 1, §11, “WordprocessingML”, have different source relationships and/or root namespaces when used in documents of the Transitional conformance class:

### 9.1 Part Summary (Part 1, §11.3)

#### 9.1.1 Alternative Format Import Part (Part 1, §11.3.1)

|                      |                                                                                                                                                                       |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/aFChunk">http://schemas.openxmlformats.org/officeDocument/2006/relationships/aFChunk</a> |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 9.1.2 Comments Part (Part 1, §11.3.2)

|                      |                                                                                                                                                                         |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/wordprocessingml/2006/main">http://schemas.openxmlformats.org/wordprocessingml/2006/main</a>                                 |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/comments">http://schemas.openxmlformats.org/officeDocument/2006/relationships/comments</a> |

#### 9.1.3 Document Settings Part (Part 1, §11.3.3)

|                      |                                                                                                                                                                         |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/wordprocessingml/2006/main">http://schemas.openxmlformats.org/wordprocessingml/2006/main</a>                                 |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/settings">http://schemas.openxmlformats.org/officeDocument/2006/relationships/settings</a> |

#### 9.1.4 Endnotes Part (Part 1, §11.3.4)

|                      |                                                                                                                                                                         |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/wordprocessingml/2006/main">http://schemas.openxmlformats.org/wordprocessingml/2006/main</a>                                 |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/endnotes">http://schemas.openxmlformats.org/officeDocument/2006/relationships/endnotes</a> |

#### 9.1.5 Fonts Table Part (Part 1, §11.3.5)

|                      |                                                                                                                                                                           |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/wordprocessingml/2006/main">http://schemas.openxmlformats.org/wordprocessingml/2006/main</a>                                   |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/fontTable">http://schemas.openxmlformats.org/officeDocument/2006/relationships/fontTable</a> |

#### 9.1.6 Footer Part (Part 1, §11.3.6)

|                 |                                                                                                                                         |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace: | <a href="http://schemas.openxmlformats.org/wordprocessingml/2006/main">http://schemas.openxmlformats.org/wordprocessingml/2006/main</a> |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------|

|                      |                                                                                                                                                                     |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/footer">http://schemas.openxmlformats.org/officeDocument/2006/relationships/footer</a> |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 9.1.7 Footnotes Part (Part 1, §11.3.7)

|                      |                                                                                                                                                                           |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/wordprocessingml/2006/main">http://schemas.openxmlformats.org/wordprocessingml/2006/main</a>                                   |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/footnotes">http://schemas.openxmlformats.org/officeDocument/2006/relationships/footnotes</a> |

### 9.1.8 Glossary Document Part (Part 1, §11.3.8)

|                      |                                                                                                                                                                                         |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/wordprocessingml/2006/main">http://schemas.openxmlformats.org/wordprocessingml/2006/main</a>                                                 |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/glossaryDocument">http://schemas.openxmlformats.org/officeDocument/2006/relationships/glossaryDocument</a> |

### 9.1.9 Header Part (Part 1, §11.3.9)

|                      |                                                                                                                                                                     |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/wordprocessingml/2006/main">http://schemas.openxmlformats.org/wordprocessingml/2006/main</a>                             |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/header">http://schemas.openxmlformats.org/officeDocument/2006/relationships/header</a> |

### 9.1.10 Main Document Part (Part 1, §11.3.10)

|                      |                                                                                                                                                                                     |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/wordprocessingml/2006/main">http://schemas.openxmlformats.org/wordprocessingml/2006/main</a>                                             |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/officeDocument">http://schemas.openxmlformats.org/officeDocument/2006/relationships/officeDocument</a> |

### 9.1.11 Numbering Definitions Part (Part 1, §11.3.11)

|                      |                                                                                                                                                                           |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/wordprocessingml/2006/main">http://schemas.openxmlformats.org/wordprocessingml/2006/main</a>                                   |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/numbering">http://schemas.openxmlformats.org/officeDocument/2006/relationships/numbering</a> |

### 9.1.12 Style Definitions Part (Part 1, §11.3.12)

|                      |                                                                                                                                                                     |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/wordprocessingml/2006/main">http://schemas.openxmlformats.org/wordprocessingml/2006/main</a>                             |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/styles">http://schemas.openxmlformats.org/officeDocument/2006/relationships/styles</a> |

### 9.1.13 Web Settings Part (Part 1, §11.3.13)

|      |                                                                                                                                         |
|------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Root | <a href="http://schemas.openxmlformats.org/wordprocessingml/2006/main">http://schemas.openxmlformats.org/wordprocessingml/2006/main</a> |
|------|-----------------------------------------------------------------------------------------------------------------------------------------|

|                      |                                                                                                                                                                               |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Namespace:           |                                                                                                                                                                               |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/webSettings">http://schemas.openxmlformats.org/officeDocument/2006/relationships/webSettings</a> |

## 9.2 Document Template (Part 1, §11.4)

|                      |                                                                                                                                                                                         |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/attachedTemplate">http://schemas.openxmlformats.org/officeDocument/2006/relationships/attachedTemplate</a> |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 9.3 Framesets (Part 1, §11.5)

|                      |                                                                                                                                                                   |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/frame">http://schemas.openxmlformats.org/officeDocument/2006/relationships/frame</a> |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 9.4 Master Documents and Subdocuments (Part 1, §11.6)

|                      |                                                                                                                                                                               |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/subDocument">http://schemas.openxmlformats.org/officeDocument/2006/relationships/subDocument</a> |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 9.5 Mail Merge Data Source (Part 1, §11.7)

|                      |                                                                                                                                                                                       |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/mailMergeSource">http://schemas.openxmlformats.org/officeDocument/2006/relationships/mailMergeSource</a> |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 9.6 Mail Merger Header Data Source (Part 1, §11.8)

|                      |                                                                                                                                                                                                   |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/mailMergeHeaderSource">http://schemas.openxmlformats.org/officeDocument/2006/relationships/mailMergeHeaderSource</a> |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 9.7 XSL Transformation (Part 1, §11.9)

|                      |                                                                                                                                                                           |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/transform">http://schemas.openxmlformats.org/officeDocument/2006/relationships/transform</a> |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 10. SpreadsheetML

The following parts, which are defined in subclauses within Part 1, §12, “SpreadsheetML”, have different source relationships and/or root namespaces when used in documents of the Transitional conformance class:

### 10.1 Part Summary (Part 1, §12.3)

#### 10.1.1 Calculation Chain Part (Part 1, §12.3.1)

|                      |                                                                                                                                                                           |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/spreadsheetml/2006/main">http://schemas.openxmlformats.org/spreadsheetml/2006/main</a>                                         |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/calcChain">http://schemas.openxmlformats.org/officeDocument/2006/relationships/calcChain</a> |

#### 10.1.2 Chartsheet Part (Part 1, §12.3.2)

|                      |                                                                                                                                                                             |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/spreadsheetml/2006/main">http://schemas.openxmlformats.org/spreadsheetml/2006/main</a>                                           |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/chartsheet">http://schemas.openxmlformats.org/officeDocument/2006/relationships/chartsheet</a> |

#### 10.1.3 Comments Part (Part 1, §12.3.3)

|                      |                                                                                                                                                                         |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/spreadsheetml/2006/main">http://schemas.openxmlformats.org/spreadsheetml/2006/main</a>                                       |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/comments">http://schemas.openxmlformats.org/officeDocument/2006/relationships/comments</a> |

#### 10.1.4 Connections Part (Part 1, §12.3.4)

|                      |                                                                                                                                                                               |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/spreadsheetml/2006/main">http://schemas.openxmlformats.org/spreadsheetml/2006/main</a>                                             |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/connections">http://schemas.openxmlformats.org/officeDocument/2006/relationships/connections</a> |

#### 10.1.5 Custom Property Part (Part 1, §12.3.5)

|                      |                                                                                                                                                                                     |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | Not applicable                                                                                                                                                                      |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/customProperty">http://schemas.openxmlformats.org/officeDocument/2006/relationships/customProperty</a> |

### 10.1.6 Custom XML Mappings Part (Part 1, §12.3.6)

|                      |                                                                                                                                                                       |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/spreadsheetml/2006/main">http://schemas.openxmlformats.org/spreadsheetml/2006/main</a>                                     |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/xmlMaps">http://schemas.openxmlformats.org/officeDocument/2006/relationships/xmlMaps</a> |

### 10.1.7 Dialogsheet Part (Part 1, §12.3.7)

|                      |                                                                                                                                                                               |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/spreadsheetml/2006/main">http://schemas.openxmlformats.org/spreadsheetml/2006/main</a>                                             |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/dialogsheet">http://schemas.openxmlformats.org/officeDocument/2006/relationships/dialogsheet</a> |

### 10.1.8 Drawings Part (Part 1, §12.3.8)

|                      |                                                                                                                                                                       |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/drawingml/2006/spreadsheetDrawing">http://schemas.openxmlformats.org/drawingml/2006/spreadsheetDrawing</a>                 |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/drawing">http://schemas.openxmlformats.org/officeDocument/2006/relationships/drawing</a> |

### 10.1.9 External Workbook References Part (Part 1, §12.3.9)

|                      |                                                                                                                                                                                 |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/spreadsheetml/2006/main">http://schemas.openxmlformats.org/spreadsheetml/2006/main</a>                                               |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/externalLink">http://schemas.openxmlformats.org/officeDocument/2006/relationships/externalLink</a> |

### 10.1.10 Metadata Part (Part 1, §12.3.10)

|                      |                                                                                                                                                                                   |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/spreadsheetml/2006/main">http://schemas.openxmlformats.org/spreadsheetml/2006/main</a>                                                 |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/sheetMetadata">http://schemas.openxmlformats.org/officeDocument/2006/relationships/sheetMetadata</a> |

### 10.1.11 Pivot Table Part (Part 1, §12.3.11)

|                      |                                                                                                                                                                             |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/spreadsheetml/2006/main">http://schemas.openxmlformats.org/spreadsheetml/2006/main</a>                                           |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/pivotTable">http://schemas.openxmlformats.org/officeDocument/2006/relationships/pivotTable</a> |

### 10.1.12 Pivot Table Cache Definition Part (Part 1, §12.3.12)

|                      |                                                                                                                                                                                                 |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/spreadsheetml/2006/main">http://schemas.openxmlformats.org/spreadsheetml/2006/main</a>                                                               |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/pivotCacheDefinition">http://schemas.openxmlformats.org/officeDocument/2006/relationships/pivotCacheDefinition</a> |

**10.1.13 Pivot Table Cache Records Part (Part 1, §12.3.13)**

|                      |                                                                                                                                                                                           |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/spreadsheetml/2006/main">http://schemas.openxmlformats.org/spreadsheetml/2006/main</a>                                                         |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/pivotCacheRecords">http://schemas.openxmlformats.org/officeDocument/2006/relationships/pivotCacheRecords</a> |

**10.1.14 Query Table Part (Part 1, §12.3.14)**

|                      |                                                                                                                                                                             |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/spreadsheetml/2006/main">http://schemas.openxmlformats.org/spreadsheetml/2006/main</a>                                           |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/queryTable">http://schemas.openxmlformats.org/officeDocument/2006/relationships/queryTable</a> |

**10.1.15 Shared Strings Table Part (Part 1, §12.3.15)**

|                      |                                                                                                                                                                                   |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/spreadsheetml/2006/main">http://schemas.openxmlformats.org/spreadsheetml/2006/main</a>                                                 |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/sharedStrings">http://schemas.openxmlformats.org/officeDocument/2006/relationships/sharedStrings</a> |

**10.1.16 Shared Workbook Revision Headers Part (Part 1, §12.3.16)**

|                      |                                                                                                                                                                                       |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/spreadsheetml/2006/main">http://schemas.openxmlformats.org/spreadsheetml/2006/main</a>                                                     |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/revisionHeaders">http://schemas.openxmlformats.org/officeDocument/2006/relationships/revisionHeaders</a> |

**10.1.17 Shared Workbook Revision Log Part (Part 1, §12.3.17)**

|                      |                                                                                                                                                                               |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/spreadsheetml/2006/main">http://schemas.openxmlformats.org/spreadsheetml/2006/main</a>                                             |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/revisionLog">http://schemas.openxmlformats.org/officeDocument/2006/relationships/revisionLog</a> |

**10.1.18 Shared Workbook User Data part (Part 1, §12.3.18)**

|                      |                                                                                                                                                                           |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/spreadsheetml/2006/main">http://schemas.openxmlformats.org/spreadsheetml/2006/main</a>                                         |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/usernames">http://schemas.openxmlformats.org/officeDocument/2006/relationships/usernames</a> |

**10.1.19 Single Cell Table Definitions Part (Part 1, §12.3.19)**

|                      |                                                                                                                                                                                         |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/spreadsheetml/2006/main">http://schemas.openxmlformats.org/spreadsheetml/2006/main</a>                                                       |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/tableSingleCells">http://schemas.openxmlformats.org/officeDocument/2006/relationships/tableSingleCells</a> |

**10.1.20 Styles Part (Part 1, §12.3.20)**

|                      |                                                                                                                                                                     |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/spreadsheetml/2006/main">http://schemas.openxmlformats.org/spreadsheetml/2006/main</a>                                   |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/styles">http://schemas.openxmlformats.org/officeDocument/2006/relationships/styles</a> |

**10.1.21 Table Definition Part (Part 1, §12.3.21)**

|                      |                                                                                                                                                                   |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/spreadsheetml/2006/main">http://schemas.openxmlformats.org/spreadsheetml/2006/main</a>                                 |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/table">http://schemas.openxmlformats.org/officeDocument/2006/relationships/table</a> |

**10.1.22 Volatile Dependencies Part (Part 1, §12.3.22)**

|                      |                                                                                                                                                                                                 |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/spreadsheetml/2006/main">http://schemas.openxmlformats.org/spreadsheetml/2006/main</a>                                                               |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/volatileDependencies">http://schemas.openxmlformats.org/officeDocument/2006/relationships/volatileDependencies</a> |

**10.1.23 Workbook Part (Part 1, §12.3.23)**

|                      |                                                                                                                                                                                     |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/spreadsheetml/2006/main">http://schemas.openxmlformats.org/spreadsheetml/2006/main</a>                                                   |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/officeDocument">http://schemas.openxmlformats.org/officeDocument/2006/relationships/officeDocument</a> |

**10.1.24 Worksheet Part (Part 1, §12.3.24)**

|                      |                                                                                                                                                                           |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/spreadsheetml/2006/main">http://schemas.openxmlformats.org/spreadsheetml/2006/main</a>                                         |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/worksheet">http://schemas.openxmlformats.org/officeDocument/2006/relationships/worksheet</a> |

**10.2 External Workbooks (Part 1, §12.4)**

|                      |                                                                                                                                                                                         |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/externalLinkPath">http://schemas.openxmlformats.org/officeDocument/2006/relationships/externalLinkPath</a> |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# 11. PresentationML

The following parts, which are defined in subclauses within Part 1, §13, “PresentationML”, have different source relationships and/or root namespaces when used in documents of the Transitional conformance class:

## 11.1 Part Summary (Part 1, §13.3)

### 11.1.1 Comment Authors Part (Part 1, §13.3.1)

|                      |                                                                                    |
|----------------------|------------------------------------------------------------------------------------|
| Root Namespace:      | http://schemas.openxmlformats.org/presentationml/2006/main                         |
| Source Relationship: | http://schemas.openxmlformats.org/officeDocument/2006/relationships/commentAuthors |

### 11.1.2 Comments Part (Part 1, §13.3.2)

|                      |                                                                              |
|----------------------|------------------------------------------------------------------------------|
| Root Namespace:      | http://schemas.openxmlformats.org/presentationml/2006/main                   |
| Source Relationship: | http://schemas.openxmlformats.org/officeDocument/2006/relationships/comments |

### 11.1.3 Handout Master Part (Part 1, §13.3.3)

|                      |                                                                                   |
|----------------------|-----------------------------------------------------------------------------------|
| Root Namespace:      | http://schemas.openxmlformats.org/presentationml/2006/main                        |
| Source Relationship: | http://schemas.openxmlformats.org/officeDocument/2006/relationships/handoutMaster |

### 11.1.4 Notes Master Part (Part 1, §13.3.4)

|                      |                                                                                 |
|----------------------|---------------------------------------------------------------------------------|
| Root Namespace:      | http://schemas.openxmlformats.org/presentationml/2006/main                      |
| Source Relationship: | http://schemas.openxmlformats.org/officeDocument/2006/relationships/notesMaster |

### 11.1.5 Notes Slide Part (Part 1, §13.3.5)

|                      |                                                                                |
|----------------------|--------------------------------------------------------------------------------|
| Root Namespace:      | http://schemas.openxmlformats.org/presentationml/2006/main                     |
| Source Relationship: | http://schemas.openxmlformats.org/officeDocument/2006/relationships/notesSlide |



**11.1.6 Presentation Part (Part 1, §13.3.6)**

|                      |                                                                                                                                                                                     |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/presentationml/2006/main">http://schemas.openxmlformats.org/presentationml/2006/main</a>                                                 |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/officeDocument">http://schemas.openxmlformats.org/officeDocument/2006/relationships/officeDocument</a> |

**11.1.7 Presentation Properties Part (Part 1, §13.3.7)**

|                      |                                                                                                                                                                           |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/presentationml/2006/main">http://schemas.openxmlformats.org/presentationml/2006/main</a>                                       |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/presProps">http://schemas.openxmlformats.org/officeDocument/2006/relationships/presProps</a> |

**11.1.8 Slide Part (Part 1, §13.3.8)**

|                      |                                                                                                                                                                   |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/presentationml/2006/main">http://schemas.openxmlformats.org/presentationml/2006/main</a>                               |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/slide">http://schemas.openxmlformats.org/officeDocument/2006/relationships/slide</a> |

**11.1.9 Slide Layout Part (Part 1, §13.3.9)**

|                      |                                                                                                                                                                               |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/presentationml/2006/main">http://schemas.openxmlformats.org/presentationml/2006/main</a>                                           |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/slideLayout">http://schemas.openxmlformats.org/officeDocument/2006/relationships/slideLayout</a> |

**11.1.10 Slide Master Part (Part 1, §13.3.10)**

|                      |                                                                                                                                                                               |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/presentationml/2006/main">http://schemas.openxmlformats.org/presentationml/2006/main</a>                                           |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/slideMaster">http://schemas.openxmlformats.org/officeDocument/2006/relationships/slideMaster</a> |

**11.1.11 Slide Synchronization Data Part (Part 1, §13.3.11)**

|                      |                                                                                                                                                                                       |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/presentationml/2006/main">http://schemas.openxmlformats.org/presentationml/2006/main</a>                                                   |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/slideUpdateInfo">http://schemas.openxmlformats.org/officeDocument/2006/relationships/slideUpdateInfo</a> |

**11.1.12 User Defined Tags Part (Part 1, §13.3.12)**

|                      |                                                                                                                                                                 |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/presentationml/2006/main">http://schemas.openxmlformats.org/presentationml/2006/main</a>                             |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/tags">http://schemas.openxmlformats.org/officeDocument/2006/relationships/tags</a> |

### 11.1.13 View Properties Part (Part 1, §13.3.13)

|                      |                                                                                                                                                                           |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/presentationml/2006/main">http://schemas.openxmlformats.org/presentationml/2006/main</a>                                       |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/viewProps">http://schemas.openxmlformats.org/officeDocument/2006/relationships/viewProps</a> |

### 11.2 HTML Publish Location (Part 1, §13.4)

|                      |                                                                                                                                                                                   |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/htmlPubSaveAs">http://schemas.openxmlformats.org/officeDocument/2006/relationships/htmlPubSaveAs</a> |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 11.3 Slide Synchronization Server Location (Part 1, §13.5)

|                      |                                                                                                                                                                                     |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/slideUpdateUrl">http://schemas.openxmlformats.org/officeDocument/2006/relationships/slideUpdateUrl</a> |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

STANDARDSISO.COM : Click to view the full PDF of ISO/IEC 29500-4:2011

## 12. DrawingML

The following parts, which are defined in subclauses within Part 1, §14, “DrawingML”, have different source relationships and/or root namespaces when used in documents of the Transitional conformance class:

### 12.1 Part Summary (Part 1, §14.2)

#### 12.1.1 Chart Part (Part 1, §14.2.1)

|                      |                                                                                                                                                                   |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/drawingml/2006/chart">http://schemas.openxmlformats.org/drawingml/2006/chart</a>                                       |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/chart">http://schemas.openxmlformats.org/officeDocument/2006/relationships/chart</a> |

#### 12.1.2 Chart Drawing Part (Part 1, §14.2.2)

|                      |                                                                                                                                                                                       |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/drawingml/2006/chart">http://schemas.openxmlformats.org/drawingml/2006/chart</a>                                                           |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/chartUserShapes">http://schemas.openxmlformats.org/officeDocument/2006/relationships/chartUserShapes</a> |

#### 12.1.3 Diagram Colors Part (Part 1, §14.2.3)

|                      |                                                                                                                                                                                   |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/drawingml/2006/diagram">http://schemas.openxmlformats.org/drawingml/2006/diagram</a>                                                   |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/diagramColors">http://schemas.openxmlformats.org/officeDocument/2006/relationships/diagramColors</a> |

#### 12.1.4 Diagram Data Part (Part 1, §14.2.4)

|                      |                                                                                                                                                                               |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/drawingml/2006/diagram">http://schemas.openxmlformats.org/drawingml/2006/diagram</a>                                               |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/diagramData">http://schemas.openxmlformats.org/officeDocument/2006/relationships/diagramData</a> |

#### 12.1.5 Diagram Layout Definition Part (Part 1, §14.2.5)

|                      |                                                                                                                                                                                   |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/drawingml/2006/diagram">http://schemas.openxmlformats.org/drawingml/2006/diagram</a>                                                   |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/diagramLayout">http://schemas.openxmlformats.org/officeDocument/2006/relationships/diagramLayout</a> |

**12.1.6 Diagram Style Part (Part 1, §14.2.6)**

|                      |                                                                                                                                                                                           |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/drawingml/2006/diagram">http://schemas.openxmlformats.org/drawingml/2006/diagram</a>                                                           |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/diagramQuickStyle">http://schemas.openxmlformats.org/officeDocument/2006/relationships/diagramQuickStyle</a> |

**12.1.7 Theme Part (Part 1, §14.2.7)**

|                      |                                                                                                                                                                   |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/drawingml/2006/main">http://schemas.openxmlformats.org/drawingml/2006/main</a>                                         |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/theme">http://schemas.openxmlformats.org/officeDocument/2006/relationships/theme</a> |

**12.1.8 Theme Override Part (Part 1, §14.2.8)**

|                      |                                                                                                                                                                                   |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/drawingml/2006/main">http://schemas.openxmlformats.org/drawingml/2006/main</a>                                                         |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/themeOverride">http://schemas.openxmlformats.org/officeDocument/2006/relationships/themeOverride</a> |

**12.1.9 Table Styles Part (Part 1, §14.2.9)**

|                      |                                                                                                                                                                               |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/drawingml/2006/main">http://schemas.openxmlformats.org/drawingml/2006/main</a>                                                     |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/tableStyles">http://schemas.openxmlformats.org/officeDocument/2006/relationships/tableStyles</a> |

## 13. Shared MLs

The following parts, which are defined in subclauses within Part 1, §15, “Shared”, have different source relationships and/or root namespaces when used in documents of the Transitional conformance class:

### 13.1 Part Summary (Part 1, §15.2)

#### 13.1.1 Additional Characteristics Part (Part 1, §15.2.1)

|                      |                                                                                                                                                                               |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/officeDocument/2006/additionalCharacteristics">http://schemas.openxmlformats.org/officeDocument/2006/additionalCharacteristics</a> |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/customXml">http://schemas.openxmlformats.org/officeDocument/2006/relationships/customXml</a>     |

#### 13.1.2 Audio Part (Part 1, §15.2.2)

|                      |                                                                                                                                                                   |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/audio">http://schemas.openxmlformats.org/officeDocument/2006/relationships/audio</a> |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 13.1.3 Bibliography Part (Part 1, §15.2.3)

|                      |                                                                                                                                                                           |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/officeDocument/2006/bibliography">http://schemas.openxmlformats.org/officeDocument/2006/bibliography</a>                       |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/customXml">http://schemas.openxmlformats.org/officeDocument/2006/relationships/customXml</a> |

#### 13.1.4 Content Part (Part 1, §15.2.4)

|                      |                                                                                                                                                                           |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/customXml">http://schemas.openxmlformats.org/officeDocument/2006/relationships/customXml</a> |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 13.1.5 Custom XML Data Storage Part (Part 1, §15.2.5)

|                      |                                                                                                                                                                           |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/customXml">http://schemas.openxmlformats.org/officeDocument/2006/relationships/customXml</a> |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 13.1.6 Custom XML Data Storage Properties Part (Part 1, §15.2.6)

|                      |                                                                                                                                                                                     |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/officeDocument/2006/customXmlDataProps">http://schemas.openxmlformats.org/officeDocument/2006/customXmlDataProps</a>                     |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/customXmlProps">http://schemas.openxmlformats.org/officeDocument/2006/relationships/customXmlProps</a> |

**13.1.7 Embedded Control Persistence Part (Part 1, §15.2.9)**

|                      |                                                                                                                                                                       |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/control">http://schemas.openxmlformats.org/officeDocument/2006/relationships/control</a> |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**13.1.8 Embedded Object Part (Part 1, §15.2.10)**

|                      |                                                                                                                                                                           |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/oleObject">http://schemas.openxmlformats.org/officeDocument/2006/relationships/oleObject</a> |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**13.1.9 Embedded Package Part (Part 1, §15.2.11)**

|                      |                                                                                                                                                                       |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/package">http://schemas.openxmlformats.org/officeDocument/2006/relationships/package</a> |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**13.1.10 Core File Properties Part (Part 1, §15.2.12.1)**

|                      |                                                                                                                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/metadata/core-properties">http://schemas.openxmlformats.org/officeDocument/2006/relationships/metadata/core-properties</a> |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**13.1.11 Custom File Properties Part (Part 1, §15.2.12.2)**

|                      |                                                                                                                                                                                           |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/officeDocument/2006/custom-properties">http://schemas.openxmlformats.org/officeDocument/2006/custom-properties</a>                             |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/custom-properties">http://schemas.openxmlformats.org/officeDocument/2006/relationships/custom-properties</a> |

**13.1.12 Extended File Properties Part (Part 1, §15.2.12.3)**

|                      |                                                                                                                                                                                               |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root Namespace:      | <a href="http://schemas.openxmlformats.org/officeDocument/2006/extended-properties">http://schemas.openxmlformats.org/officeDocument/2006/extended-properties</a>                             |
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/extended-properties">http://schemas.openxmlformats.org/officeDocument/2006/relationships/extended-properties</a> |

**13.1.13 Font Part (Part 1, §15.2.13)**

|                      |                                                                                                                                                                 |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/font">http://schemas.openxmlformats.org/officeDocument/2006/relationships/font</a> |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|

**13.1.14 Image Part (Part 1, §15.2.14)**

|                      |                                                                                                                                                                   |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/image">http://schemas.openxmlformats.org/officeDocument/2006/relationships/image</a> |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**13.1.15 Printer Settings Part (Part 1, §15.2.15)**

|                      |                                                                                                                                                                                       |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/printerSettings">http://schemas.openxmlformats.org/officeDocument/2006/relationships/printerSettings</a> |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**13.1.16 Thumbnail Part (Part 1, §15.2.16)**

|                      |                                                                                                                                                                               |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source Relationship: | <a href="http://schemas.openxmlformats.org/package/2006/relationships/metadata/thumbnail">http://schemas.openxmlformats.org/package/2006/relationships/metadata/thumbnail</a> |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**13.1.17 Video Part (Part 1, §15.2.17)**

|                      |                                                                                                                                                                   |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/video">http://schemas.openxmlformats.org/officeDocument/2006/relationships/video</a> |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**13.2 Hyperlinks Part (Part 1, §15.3)**

|                      |                                                                                                                                                                           |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source Relationship: | <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink">http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink</a> |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

STANDARDSISO.COM : Click to view the full PDF of ISO/IEC 29500-4:2011

# 14. WordprocessingML Reference Material

## 14.1 Table of Contents

This subclause is informative.

|                                                                                           |           |
|-------------------------------------------------------------------------------------------|-----------|
| <b>14.2 Paragraphs and Rich Formatting .....</b>                                          | <b>33</b> |
| 14.2.1 Paragraphs .....                                                                   | 33        |
| 14.2.1.1 Additional attribute for cnfStyle element (Part 1, §17.3.1.8) .....              | 33        |
| 14.2.1.2 Additional attributes for ind element (Part 1, §17.3.1.12) .....                 | 34        |
| 14.2.2 Run Content .....                                                                  | 34        |
| 14.2.2.1 control (Floating Embedded Control) .....                                        | 34        |
| 14.2.2.2 pict (VML Object) .....                                                          | 37        |
| <b>14.3 Tables .....</b>                                                                  | <b>37</b> |
| 14.3.1 left (Table Cell Leading Edge Border) .....                                        | 37        |
| 14.3.2 left (Table Leading Edge Border) .....                                             | 38        |
| 14.3.3 left (Table Cell Leading Margin Exception) .....                                   | 38        |
| 14.3.4 left (Table Cell Leading Margin Default) .....                                     | 38        |
| 14.3.5 right (Table Cell Trailing Edge Border) .....                                      | 38        |
| 14.3.6 right (Table Trailing Edge Border) .....                                           | 39        |
| 14.3.7 right (Table Cell Trailing Margin Default) .....                                   | 39        |
| 14.3.8 right (Table Cell Trailing Margin Exception) .....                                 | 39        |
| 14.3.9 Additional attribute for cnfStyle element (Part 1, §17.4.7) .....                  | 40        |
| 14.3.10 Additional attribute for cnfStyle element (Part 1, §17.4.8) .....                 | 41        |
| 14.3.11 Additional attribute for tblLook element (Part 1, §17.4.55) .....                 | 42        |
| 14.3.12 Additional attribute for tblLook element (Part 1, §17.4.56) .....                 | 43        |
| <b>14.4 Fonts .....</b>                                                                   | <b>44</b> |
| 14.4.1 Elements .....                                                                     | 44        |
| 14.4.1.1 Additional attribute for charset element (Part 1, §17.8.3.2) .....               | 44        |
| <b>14.5 Numbering .....</b>                                                               | <b>45</b> |
| 14.5.1 pict (Picture Numbering Symbol Properties) .....                                   | 45        |
| <b>14.6 Annotations .....</b>                                                             | <b>46</b> |
| 14.6.1 Revisions .....                                                                    | 46        |
| 14.6.1.1 numberingChange (Previous Numbering Field Properties) .....                      | 46        |
| 14.6.1.2 numberingChange (Previous Paragraph Numbering Properties) .....                  | 49        |
| <b>14.7 Settings .....</b>                                                                | <b>55</b> |
| 14.7.1 Legacy Password Hash Algorithm .....                                               | 55        |
| 14.7.2 Document Settings .....                                                            | 63        |
| 14.7.2.1 hdrShapeDefaults (Default Properties for VML Objects in Header and Footer) ..... | 63        |
| 14.7.2.2 shapeDefaults (Default Properties for VML Objects in Main Document) .....        | 64        |
| 14.7.2.3 Additional attributes for documentProtection element (Part 1, §17.15.1.29) ..... | 64        |



|           |                                                                                                                |     |
|-----------|----------------------------------------------------------------------------------------------------------------|-----|
| 14.7.2.4  | Additional attribute for stylePaneFormatFilter element (Part 1, §17.15.1.85) .....                             | 70  |
| 14.7.2.5  | Additional attributes for writeProtection element (Part 1, §17.15.1.93) .....                                  | 72  |
| 14.7.3    | Compatibility Settings .....                                                                                   | 78  |
| 14.7.3.1  | alignTablesRowByRow (Align Table Rows Independently) .....                                                     | 78  |
| 14.7.3.2  | allowSpaceOfSameStyleInTable (Allow Contextual Spacing of Paragraphs in Tables) .....                          | 80  |
| 14.7.3.3  | autofitToFirstFixedWidthCell (Allow Table Columns To Exceed Preferred Widths of Constituent Cells) .....       | 82  |
| 14.7.3.4  | autoSpaceLikeWord95 (Incorrectly Adjust Text Spacing for Specific Unicode Ranges) .....                        | 83  |
| 14.7.3.5  | cachedColBalance (Use Cached Paragraph Information for Column Balancing) .....                                 | 85  |
| 14.7.3.6  | convMailMergeEsc (Treat Backslash Quotation Delimiter as Two Quotation Marks) .....                            | 86  |
| 14.7.3.7  | displayHangulFixedWidth (Always Use Fixed Width for Hangul Characters) .....                                   | 87  |
| 14.7.3.8  | doNotAutofitConstrainedTables (Do Not AutoFit Tables To Fit Next To Wrapped Objects) .....                     | 88  |
| 14.7.3.9  | doNotBreakConstrainedForcedTable (Don't Break Table Rows Around Floating Tables) .....                         | 90  |
| 14.7.3.10 | doNotBreakWrappedTables (Do Not Allow Floating Tables To Break Across Pages) .....                             | 91  |
| 14.7.3.11 | doNotSnapToGridInCell (Do Not Snap to Document Grid in Table Cells with Objects) .....                         | 93  |
| 14.7.3.12 | doNotSuppressIndentation (Do Not Ignore Floating Objects When Calculating Paragraph Indentation) .....         | 94  |
| 14.7.3.13 | doNotSuppressParagraphBorders (Do Not Suppress Paragraph Borders Next To Frames) .....                         | 96  |
| 14.7.3.14 | doNotUseEastAsianBreakRules (Do Not Compress Compressible Characters When Using Document Grid) .....           | 98  |
| 14.7.3.15 | doNotUseHTMLParagraphAutoSpacing (Use Fixed Paragraph Spacing for HTML Auto Setting) ...                       | 99  |
| 14.7.3.16 | doNotUseIndentAsNumberingTabStop (Ignore Hanging Indent When Creating Tab Stop After Numbering) .....          | 100 |
| 14.7.3.17 | doNotVertAlignCellWithSp (Don't Vertically Align Cells Containing Floating Objects) .....                      | 102 |
| 14.7.3.18 | doNotVertAlignInTxbx (Ignore Vertical Alignment in Textboxes) .....                                            | 104 |
| 14.7.3.19 | doNotWrapTextWithPunct (Do Not Allow Hanging Punctuation With Character Grid) .....                            | 106 |
| 14.7.3.20 | footnoteLayoutLikeWW8 (Ignore Page Break from Continuous Section Break) .....                                  | 107 |
| 14.7.3.21 | forgetLastTabAlignment (Ignore Width of Last Tab Stop When Aligning Paragraph If It Is Not Left Aligned) ..... | 110 |
| 14.7.3.22 | growAutofit (Allow Tables to AutoFit Into Page Margins) .....                                                  | 112 |
| 14.7.3.23 | layoutRawTableWidth (Ignore Space Before Table When Deciding If Table Should Wrap Floating Object) .....       | 113 |
| 14.7.3.24 | layoutTableRowsApart (Allow Table Rows to Wrap Inline Objects Independently) .....                             | 115 |
| 14.7.3.25 | lineWrapLikeWord6 (Ignore Compression of Full-Width Punctuation Ending a Line) .....                           | 117 |
| 14.7.3.26 | mwSmallCaps (Use Specific Small Caps Algorithm) .....                                                          | 118 |
| 14.7.3.27 | noColumnBalance (Do Not Balance Text Columns within a Section) .....                                           | 119 |
| 14.7.3.28 | noExtraLineSpacing (Do Not Center Content on Lines With Exact Line Height) .....                               | 121 |
| 14.7.3.29 | noLeading (Do Not Add Leading Between Lines of Text) .....                                                     | 122 |
| 14.7.3.30 | noSpaceRaiseLower (Do Not Increase Line Height for Raised/Lowered Text) .....                                  | 124 |
| 14.7.3.31 | noTabHangInd (Do Not Create Custom Tab Stop for Hanging Indent) .....                                          | 125 |
| 14.7.3.32 | printBodyTextBeforeHeader (Print Body Text before Header/Footer Contents) .....                                | 126 |
| 14.7.3.33 | printColBlack (Print Colors as Black And White without Dithering) .....                                        | 127 |
| 14.7.3.34 | selectFldWithFirstOrLastChar (Select Field When First or Last Character Is Selected) .....                     | 128 |
| 14.7.3.35 | shapeLayoutLikeWW8 (Ignore Text Wrapping around Objects at Bottom of Page) .....                               | 129 |
| 14.7.3.36 | showBreaksInFrames (Display Page/Column Breaks Present in Frames) .....                                        | 131 |
| 14.7.3.37 | spacingInWholePoints (Only Expand/Condense Text By Whole Points) .....                                         | 133 |
| 14.7.3.38 | splitPgBreakAndParaMark (Always Move Paragraph Mark to Page after a Page Break) .....                          | 135 |
| 14.7.3.39 | subFontBySize (Require Exact Size During Font Substitution) .....                                              | 137 |

|              |                                                                                                         |            |
|--------------|---------------------------------------------------------------------------------------------------------|------------|
| 14.7.3.40    | suppressBottomSpacing (Ignore Exact Line Height for Last Line on Page).....                             | 137        |
| 14.7.3.41    | suppressSpacingAtTopOfPage (Ignore Minimum Line Height for First Line on Page).....                     | 139        |
| 14.7.3.42    | suppressSpBfAfterPgBrk (Do Not Use Space Before On First Line After a Page Break) .....                 | 141        |
| 14.7.3.43    | suppressTopSpacing (Ignore Minimum and Exact Line Height for First Line on Page).....                   | 143        |
| 14.7.3.44    | suppressTopSpacingWP (Use Static Text Leading) .....                                                    | 144        |
| 14.7.3.45    | swapBordersFacingPages (Swap Paragraph Borders on Odd Numbered Pages) .....                             | 145        |
| 14.7.3.46    | truncateFontHeightsLikeWP6 (Use Truncated Integer Division For Font Calculation).....                   | 147        |
| 14.7.3.47    | underlineTabInNumList (Underline Following Character Following Numbering) .....                         | 148        |
| 14.7.3.48    | useAltKinsokuLineBreakRules (Use Alternate Set of East Asian Line Breaking Rules).....                  | 149        |
| 14.7.3.49    | useAnsiKerningPairs (Use ANSI Kerning Pairs from Fonts) .....                                           | 150        |
| 14.7.3.50    | useFELayout (Do Not Bypass East Asian/Complex Script Layout Code) .....                                 | 151        |
| 14.7.3.51    | useNormalStyleForList (Do Not Automatically Apply List Paragraph Style To Bulleted/Numbered Text) ..... | 152        |
| 14.7.3.52    | usePrinterMetrics (Use Printer Metrics To Display Documents).....                                       | 153        |
| 14.7.3.53    | useSingleBorderforContiguousCells (Use Simplified Rules For Table Border Conflicts) .....               | 154        |
| 14.7.3.54    | useWord2002TableStyleRules (Incorrectly Display Top Border of Conditional Columns) .....                | 155        |
| 14.7.3.55    | useWord97LineBreakRules (Use Incorrect Inter-Character Spacing Rules) .....                             | 157        |
| 14.7.3.56    | wpJustification (Fit To Expanded Width When Performing Full Justification) .....                        | 159        |
| 14.7.3.57    | wpSpaceWidth (Use Specific Space Width) .....                                                           | 160        |
| 14.7.3.58    | wrapTrailSpaces (Line Wrap Trailing Spaces) .....                                                       | 161        |
| <b>14.8</b>  | <b>Miscellaneous Topics .....</b>                                                                       | <b>162</b> |
| 14.8.1       | Text Box Content .....                                                                                  | 162        |
| 14.8.1.1     | txbxContent (Rich Text Box Content Container) .....                                                     | 162        |
| <b>14.9</b>  | <b>Fields and Hyperlinks .....</b>                                                                      | <b>165</b> |
| 14.9.1       | Syntax.....                                                                                             | 165        |
| 14.9.2       | Legacy language references.....                                                                         | 166        |
| 14.9.3       | Use of DOS File Paths.....                                                                              | 173        |
| 14.9.4       | Field definitions .....                                                                                 | 173        |
| 14.9.4.1     | AUTONUM .....                                                                                           | 173        |
| 14.9.4.2     | AUTONUMLGL.....                                                                                         | 174        |
| 14.9.4.3     | AUTONUMOUT .....                                                                                        | 175        |
| 14.9.4.4     | BARCODE.....                                                                                            | 176        |
| 14.9.4.5     | BIDIOUTLINE.....                                                                                        | 178        |
| 14.9.4.6     | EQ.....                                                                                                 | 178        |
| 14.9.4.7     | INFO.....                                                                                               | 181        |
| 14.9.4.8     | QUOTE.....                                                                                              | 182        |
| 14.9.5       | fldData (Custom Field Data).....                                                                        | 182        |
| 14.9.6       | fldData (Custom Field Data).....                                                                        | 183        |
| 14.9.7       | hyperlink (Hyperlink) (Part 1, §17.16.22) .....                                                         | 184        |
| <b>14.10</b> | <b>Simple Types .....</b>                                                                               | <b>184</b> |
| 14.10.1      | Additional member types for the union in ST_DecimalNumberOrPercent (Part 1, §17.18.11) .....            | 184        |
| 14.10.2      | Additional enumeration values for ST_Jc (Part 1, §17.18.44) .....                                       | 184        |
| 14.10.3      | Additional enumeration values for ST_JcTable (Part 1, §17.18.45) .....                                  | 185        |
| 14.10.4      | Additional enumeration values for ST_NumberFormat (Part 1, §17.18.59) .....                             | 185        |
| 14.10.5      | Additional enumeration values for ST_StyleSort (Part 1, §17.18.82) .....                                | 186        |
| 14.10.6      | Additional enumeration values for ST_TabJc (Part 1, §17.18.84) .....                                    | 186        |

|          |                                                                                 |     |
|----------|---------------------------------------------------------------------------------|-----|
| 14.10.7  | Additional enumeration values for ST_TextDirection (Part 1, §17.18.93) .....    | 186 |
| 14.10.8  | Additional member types for the union in ST_TextScale (Part 1, §17.18.95) ..... | 187 |
| 14.10.9  | ST_Cnf (Conditional Formatting Bitmask) .....                                   | 187 |
| 14.10.10 | ST_UnqualifiedPercentage (Percentage Value Without Percent Sign) .....          | 188 |

## End of informative text.

## 14.2 Paragraphs and Rich Formatting

### 14.2.1 Paragraphs

#### 14.2.1.1 Additional attribute for cnfStyle element (Part 1, §17.3.1.8)

The following additional attributes can be specified for a document of a transitional conformance class:

| Attributes                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| val (Conditional Formatting Bit Mask) | <p>Specifies the set of conditional formatting properties that have been applied to this object.</p> <p>These properties are expressed using a string serialization of a binary bitmask for each of the following properties (reading from the first character position right):</p> <ul style="list-style-type: none"> <li>• First Row - Is this the first row of the table?</li> <li>• Last Row - Is this the last row of the table?</li> <li>• First Column - Does this belong to the first column of the table?</li> <li>• Last Column - Does this belong to the last column of the table?</li> <li>• Band 1 Vertical - Does this belong to a column which should receive band 1 formatting? This property specifies whether the cell should receive the formatting specified for odd-numbered columns (e.g. 1,3,5,...)</li> <li>• Band 2 Vertical - Does this belong to a column which should receive band 2 formatting? This property specifies whether the cell should receive the formatting specified for even-numbered columns (e.g. 2,4,6,...)</li> <li>• Band 1 Horizontal - Does this receive band 1 formatting? This property specifies whether the cell should receive the formatting specified for odd-numbered rows (e.g. 1,3,5,...)</li> <li>• Band 2 Horizontal - Does this receive band 2 formatting? This property specifies whether the cell should receive the formatting specified for even-numbered rows (e.g. 2,4,6,...)</li> <li>• NE Cell - Is this part of the top-right corner of the table?</li> <li>• NW Cell - Is this part of the top-left corner of the table?</li> <li>• SE Cell - Is this part of the bottom-right corner of the table?</li> <li>• SW Cell - Is this part of the bottom-left corner of the table?</li> </ul> <p>For each of these properties, a value of 1 in the specified character position in the string means that the value is true, a value of 0 means false. All values shall be specified.</p> |

| Attributes | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <p>[<i>Example:</i> Consider a paragraph in the top right corner of a table with a table style applied. This paragraph would need to specify the following WordprocessingML:</p> <pre>&lt;w:p&gt;   &lt;w:pPr&gt;     &lt;w:cnfStyle w:val="101000000100" /&gt;     ...   &lt;/w:pPr&gt;   ... &lt;/w:p&gt;</pre> <p>This paragraph specifies that it has the conditional properties from the table style for the first column, first row, and the NW corner of the parent table by setting the appropriate bits in the val attribute. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_Cnf simple type (§14.10.8).</p> |

#### 14.2.1.2 Additional attributes for ind element (Part 1, §17.3.1.12)

The following additional attributes can be specified for a document of a transitional conformance class:

| Attributes                                       | Description                                                                                                                                                                    |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| left (Start Indentation)                         | <p>Semantically equivalent to the start attribute.</p> <p>The possible values for this attribute are defined by the ST_SignedTwipsMeasure simple type (Part 1, §17.18.81).</p> |
| leftChars (Start Indentation in Character Units) | <p>Semantically equivalent to the startChars attribute.</p> <p>The possible values for this attribute are defined by the ST_DecimalNumber simple type (Part 1, §17.18.10).</p> |
| right (End Indentation)                          | <p>Semantically equivalent to the end attribute.</p> <p>The possible values for this attribute are defined by the ST_SignedTwipsMeasure simple type (Part 1, §17.18.81).</p>   |
| rightChars (End Indentation in Character Units)  | <p>Semantically equivalent to the endChars attribute.</p> <p>The possible values for this attribute are defined by the ST_DecimalNumber simple type (Part 1, §17.18.10).</p>   |

### 14.2.2 Run Content

#### 14.2.2.1 control (Floating Embedded Control)

This element specifies that the parent VML object is a representation of an embedded control at the current location in the document. This element shall be used to associate the VML data with the appropriate embedded control settings and properties when the document is displayed.

If the embedded control is not present, cannot be loaded due to application settings, or is not supported, then the VML data shall be used to provide an image representation of the control at the appropriate location in the document.

[*Example:* Consider a run which consists of an embedded control. That run would be specified using the following WordprocessingML:

```
<w:r>
  <w:pict>
    ...
    <w:control r:id="rId99" w:shapeid="shape01" ... />
  </w:pict>
</w:r>
```

The control element indicates that the parent VML object contains the positioning and last known image representation of an embedded control, whose settings and properties are stored on this element. *end example]*

| Parent Elements                  |
|----------------------------------|
| pict (§14.2.2.2); pict (§14.5.1) |

| Attributes                                                                                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Embedded Control Properties Relationship Reference)<br><br>Namespace:<br>.../officeDocument/2006/relationships | <p>Specifies the relationship ID for the relationship which contains the properties for this embedded control. This property bag is contained in a separate part within the Office Open XML package.</p> <p>The relationship explicitly targeted by this attribute shall be of type <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/control">http://schemas.openxmlformats.org/officeDocument/2006/relationships/control</a> or the document shall be considered non-conformant.</p> <p>If this attribute is omitted, then the embedded control shall be given no property bag when instantiated.</p> <p>[<i>Example:</i> Consider the following WordprocessingML markup for an embedded control in a document:</p> <pre>&lt;w:control r:id="rId5" w:name="CheckBox1" w:shapeid="_x0000_s1027" /&gt;</pre> <p>The id attribute in the relationship reference namespace specifies that the relationship with relationship ID rId5 must contain the property data for this embedded control. <i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |

| Attributes                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name (Unique Name for Embedded Control) | <p>Specifies a unique name for this embedded control. This name shall be unique across all controls in this document.</p> <p>[<i>Example:</i> Consider the following WordprocessingML markup for an embedded control in a document:</p> <pre>&lt;w:control r:id="rId5" w:name="CheckBox1" w:shapeid="_x0000_s1027" /&gt;</pre> <p>The name attribute specifies that the unique name for this control must be CheckBox1. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_String simple type (Part 1, §22.9.2.13).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| shapeid (Shape Reference)               | <p>Specifies the shape ID for a shape which shall be used to define the presentation and location of this embedded control within the document if the control is floating using the DrawingML syntax.</p> <p>[<i>Note:</i> This positioning data is sufficient to display the control in any case where:</p> <ul style="list-style-type: none"> <li>• The embedded control is not on the current machine</li> <li>• Embedded controls are disabled</li> <li>• Embedded controls of this control type are not supported</li> </ul> <p><i>end note</i>]</p> <p>This shape ID reference is resolved by looking for a DrawingML object whose id attribute matches the value specified within this attribute. If no such shape exists, then the control shall be rendered inline in the document content at the current run content location.</p> <p>If this attribute is omitted, then this embedded control shall be displayed inline in the current location in the parent run.</p> <p>[<i>Example:</i> Consider the following WordprocessingML markup for an embedded control in a document:</p> <pre>&lt;w:control r:id="rId5" w:name="CheckBox1" w:shapeid="10" /&gt;</pre> <p>The shapeid attribute specifies that the DrawingML object with an id attribute value of 10 must contain the positioning data for this embedded control. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_String simple type (Part 1, §22.9.2.13).</p> |

[*Note:* The W3C XML Schema definition of this element's content model ([CT\\_Control](#)) is located in §A.1. *end note*]

### 14.2.2.2 pict (VML Object)

This element specifies that an object is located at this position in the run's contents. The layout properties of this object are specified using the VML syntax (§19.1).

[*Example:* Consider a run which consists of an object specified using VML. That run would be specified using the following WordprocessingML:

```
<w:r>
  <w:pict>
    ...
  </w:pict>
</w:r>
```

The pict element indicates that an object specified in VML is located at the current position in the run (e.g. a floating embedded control). *end example*]

| Parent Elements                                |
|------------------------------------------------|
| r (Part 1, §22.1.2.87); r (Part 1, §17.3.2.25) |

| Child Elements                                                       | Subclause          |
|----------------------------------------------------------------------|--------------------|
| control (Floating Embedded Control)                                  | §14.2.2.1          |
| movie (Embedded Video)                                               | Part 1, §17.3.3.17 |
| Any element in the urn:schemas-microsoft-com:vml namespace           | §19.1              |
| Any element in the urn:schemas-microsoft-com:office:office namespace | §19.2              |

[*Note:* The W3C XML Schema definition of this element's content model ([CT Picture](#)) is located in §A.1. *end note*]

## 14.3 Tables

### 14.3.1 left (Table Cell Leading Edge Border)

This element is semantically equivalent to start (Part 1, §17.4.34), specified above.

For tables which have the bidiVisual property (Part 1, §17.4.1) applied, this border is applied to the right edge of the cell.

| Parent Elements              |
|------------------------------|
| tcBorders (Part 1, §17.4.67) |

This element's content model is defined by the common border properties definition in Part 1, §17.3.4.

### 14.3.2 left (Table Leading Edge Border)

This element is semantically equivalent to start (Part 1, §17.4.37), specified above.

For tables which have the bidiVisual property (Part 1, §17.4.1) applied, this border is applied to the right edge of the table.

| Parent Elements                                              |
|--------------------------------------------------------------|
| tblBorders (Part 1, §17.4.39); tblBorders (Part 1, §17.4.40) |

This element's content model is defined by the common border properties definition in Part 1, §17.3.4.

### 14.3.3 left (Table Cell Leading Margin Exception)

This element is semantically equivalent to start (Part 1, §17.4.36), specified above.

For tables which have the bidiVisual property (Part 1, §17.4.1) applied, this cell margin is applied to the right edge of the cell.

| Parent Elements          |
|--------------------------|
| tcMar (Part 1, §17.4.69) |

This element's content model is defined by the common table measurement definition in Part 1, §17.4.88.

### 14.3.4 left (Table Cell Leading Margin Default)

This element is semantically equivalent to start (Part 1, §17.4.35), specified above.

For tables which have the bidiVisual property (Part 1, §17.4.1) applied, this cell margin is applied to the right edge of the cell.

| Parent Elements                                              |
|--------------------------------------------------------------|
| tblCellMar (Part 1, §17.4.42); tblCellMar (Part 1, §17.4.43) |

This element's content model is defined by the common table measurement definition in Part 1, §17.4.88.

### 14.3.5 right (Table Cell Trailing Edge Border)

This element is semantically equivalent to end (Part 1, §17.4.12), specified above.

For tables which have the bidiVisual property (Part 1, §17.4.1) applied, this border is applied to the left edge of the cell.



| Parent Elements              |
|------------------------------|
| tcBorders (Part 1, §17.4.67) |

This element's content model is defined by the common border properties definition in Part 1, §17.3.4.

### 14.3.6 right (Table Trailing Edge Border)

This element is semantically equivalent to end (Part 1, §17.4.13), specified above.

For tables which have the bidiVisual property (Part 1, §17.4.1) applied, this border is applied to the left edge of the table.

| Parent Elements                                              |
|--------------------------------------------------------------|
| tblBorders (Part 1, §17.4.39); tblBorders (Part 1, §17.4.40) |

This element's content model is defined by the common border properties definition in Part 1, §17.3.4.

### 14.3.7 right (Table Cell Trailing Margin Default)

This element is semantically equivalent to end (Part 1, §17.4.11), specified above.

For tables which have the bidiVisual property (Part 1, §17.4.1) applied, this cell margin is applied to the left edge of the cell.

| Parent Elements                                              |
|--------------------------------------------------------------|
| tblCellMar (Part 1, §17.4.42); tblCellMar (Part 1, §17.4.43) |

This element's content model is defined by the common table measurement definition in Part 1, §17.4.88.

### 14.3.8 right (Table Cell Trailing Margin Exception)

This element is semantically equivalent to end (Part 1, §17.4.10), specified above.

For tables which have the bidiVisual property (Part 1, §17.4.1) applied, this cell margin is applied to the left edge of the cell.

| Parent Elements          |
|--------------------------|
| tcMar (Part 1, §17.4.69) |

This element's content model is defined by the common table measurement definition in Part 1, §17.4.88.

### 14.3.9 Additional attribute for cnfStyle element (Part 1, §17.4.7)

The following additional attributes can be specified for a document of a transitional conformance class:

| Attributes                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| val (Conditional Formatting Bit Mask) | <p>Specifies the set of conditional formatting properties that have been applied to this object.</p> <p>These properties are expressed using a string serialization of a binary bitmask for each of the following properties (reading from the first character position right):</p> <ul style="list-style-type: none"> <li>• First Row - Is this the first row of the table?</li> <li>• Last Row - Is this the last row of the table?</li> <li>• First Column - Does this belong to the first column of the table?</li> <li>• Last Column - Does this belong to the last column of the table?</li> <li>• Band 1 Vertical - Does this belong to a column which should receive band 1 formatting? This property specifies whether the cell should receive the formatting specified for odd-numbered columns (e.g. 1,3,5,...)</li> <li>• Band 2 Vertical - Does this belong to a column which should receive band 2 formatting? This property specifies whether the cell should receive the formatting specified for even-numbered columns (e.g. 2,4,6...)</li> <li>• Band 1 Horizontal - Does this receive band 1 formatting? This property specifies whether the cell should receive the formatting specified for odd-numbered rows (e.g. 1,3,5,...)</li> <li>• Band 2 Horizontal - Does this receive band 2 formatting? This property specifies whether the cell should receive the formatting specified for even-numbered rows (e.g. 2,4,6...)</li> <li>• NE Cell - Is this part of the top-right corner of the table?</li> <li>• NW Cell - Is this part of the top-left corner of the table?</li> <li>• SE Cell - Is this part of the bottom-right corner of the table?</li> <li>• SW Cell - Is this part of the bottom-left corner of the table?</li> </ul> <p>For each of these properties, a value of 1 in the specified character position in the string means that the value is true, a value of 0 means false. All values shall be specified.</p> <p>[Example: Consider a paragraph in the top right corner of a table with a table style applied. This paragraph would need to specify the following WordprocessingML:</p> <pre>&lt;w:p&gt;   &lt;w:pPr&gt;     &lt;w:cnfStyle w:val="101000000100" /&gt;     ...   &lt;/w:pPr&gt;   ... &lt;/w:p&gt;</pre> <p>This paragraph specifies that it has the conditional properties from the table style for the</p> |

| Attributes | Description                                                                                                                                                                                                                                     |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <p>first column, first row, and the NW corner of the parent table by setting the appropriate bits in the val attribute. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_Cnf simple type (§14.10.8).</p> |

### 14.3.10 Additional attribute for cnfStyle element (Part 1, §17.4.8)

The following additional attributes can be specified for a document of a transitional conformance class:

| Attributes                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| val (Conditional Formatting Bit Mask) | <p>Specifies the set of conditional formatting properties that have been applied to this object.</p> <p>These properties are expressed using a string serialization of a binary bitmask for each of the following properties (reading from the first character position right):</p> <ul style="list-style-type: none"> <li>• First Row - Is this the first row of the table?</li> <li>• Last Row - Is this the last row of the table?</li> <li>• First Column - Does this belong to the first column of the table?</li> <li>• Last Column - Does this belong to the last column of the table?</li> <li>• Band 1 Vertical - Does this belong to a column which should receive band 1 formatting? This property specifies whether the cell should receive the formatting specified for odd-numbered columns (e.g. 1,3,5,...)</li> <li>• Band 2 Vertical - Does this belong to a column which should receive band 2 formatting? This property specifies whether the cell should receive the formatting specified for even-numbered columns (e.g. 2,4,6...)</li> <li>• Band 1 Horizontal - Does this receive band 1 formatting? This property specifies whether the cell should receive the formatting specified for odd-numbered rows (e.g. 1,3,5,...)</li> <li>• Band 2 Horizontal - Does this receive band 2 formatting? This property specifies whether the cell should receive the formatting specified for even-numbered rows (e.g. 2,4,6...)</li> <li>• NE Cell - Is this part of the top-right corner of the table?</li> <li>• NW Cell - Is this part of the top-left corner of the table?</li> <li>• SE Cell - Is this part of the bottom-right corner of the table?</li> <li>• SW Cell - Is this part of the bottom-left corner of the table?</li> </ul> <p>For each of these properties, a value of 1 in the specified character position in the string means that the value is true, a value of 0 means false. All values shall be specified.</p> <p>[Example: Consider a paragraph in the top right corner of a table with a table style applied. This paragraph would need to specify the following WordprocessingML:</p> <pre>&lt;w:p&gt;   &lt;w:pPr&gt;     &lt;w:cnfStyle w:val="101000000100" /&gt;</pre> |

| Attributes | Description                                                                                                                                                                                                                                                                                                                                                                                   |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <pre> ... &lt;/w:pPr&gt; ... &lt;/w:p&gt; </pre> <p>This paragraph specifies that it has the conditional properties from the table style for the first column, first row, and the NW corner of the parent table by setting the appropriate bits in the val attribute. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_Cnf simple type (§14.10.8).</p> |

#### 14.3.11 Additional attribute for tblLook element (Part 1, §17.4.55)

The following additional attributes can be specified for a document of a transitional conformance class:

| Attributes                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| val (Bitmask of Table Conditional Formatting) | <p>Specifies a hexadecimal code containing a bitmask of options, interpreted as follows:</p> <ul style="list-style-type: none"> <li>• 0x0020=Apply first row conditional formatting</li> <li>• 0x0040=Apply last row conditional formatting</li> <li>• 0x0080=Apply first column conditional formatting</li> <li>• 0x0100=Apply last column conditional formatting</li> <li>• 0x0200=Do not apply row banding conditional formatting</li> <li>• 0x0400=Do not apply column banding conditional formatting</li> </ul> <p>If omitted, the bitmask of table style options on the current table shall be assumed to be 0000.</p> <p>[<i>Example:</i> Consider a table which must use the following conditional formatting properties from the referenced table style:</p> <ul style="list-style-type: none"> <li>• First row conditional formatting</li> <li>• Last row conditional formatting</li> </ul> <p>This table would then apply the following portions of the bitmask:</p> <ul style="list-style-type: none"> <li>• 0x0020=Apply first row conditional formatting</li> <li>• 0x0040=Apply last row conditional formatting</li> <li>• 0x0200=Do not apply row banding conditional formatting</li> <li>• 0x0400=Do not apply column banding conditional formatting</li> </ul> <p>The resulting WordprocessingML would be specified as follows:</p> <pre> &lt;w:tblPr&gt;   &lt;w:tblLook w:val="0660"/&gt; &lt;/w:tblPr&gt; </pre> <p>The val attribute specifies a bitmask which determines the components of the table style applied to the current table. <i>end example</i>]</p> |

| Attributes | Description                                                                                                  |
|------------|--------------------------------------------------------------------------------------------------------------|
|            | The possible values for this attribute are defined by the ST_ShortHexNumber simple type (Part 1, §17.18.79). |

### 14.3.12 Additional attribute for tblLook element (Part 1, §17.4.56)

The following additional attributes can be specified for a document of a transitional conformance class:

| Attributes                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| val (Bitmask of Table Conditional Formatting) | <p>Specifies a hexadecimal code containing a bitmask of options, interpreted as follows:</p> <ul style="list-style-type: none"> <li>• 0x0020=Apply first row conditional formatting</li> <li>• 0x0040=Apply last row conditional formatting</li> <li>• 0x0080=Apply first column conditional formatting</li> <li>• 0x0100=Apply last column conditional formatting</li> <li>• 0x0200=Do not apply row banding conditional formatting</li> <li>• 0x0400=Do not apply column banding conditional formatting</li> </ul> <p>If omitted, the bitmask of table style options on the current table shall be assumed to be 0000.</p> <p>[Example: Consider a table which must use the following conditional formatting properties from the referenced table style:</p> <ul style="list-style-type: none"> <li>• First row conditional formatting</li> <li>• Last row conditional formatting</li> </ul> <p>This table would then apply the following portions of the bitmask:</p> <ul style="list-style-type: none"> <li>• 0x0020=Apply first row conditional formatting</li> <li>• 0x0040=Apply last row conditional formatting</li> <li>• 0x0200=Do not apply row banding conditional formatting</li> <li>• 0x0400=Do not apply column banding conditional formatting</li> </ul> <p>The resulting WordprocessingML would be specified as follows:</p> <pre>&lt;w:tblPr&gt;   &lt;w:tblLook w:val="0660"/&gt; &lt;/w:tblPr&gt;</pre> <p>The val attribute specifies a bitmask which determines the components of the table style applied to the current table. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_ShortHexNumber simple type (Part 1, §17.18.79).</p> |

## 14.4 Fonts

### 14.4.1 Elements

#### 14.4.1.1 Additional attribute for charset element (Part 1, §17.8.3.2)

The following additional attributes can be specified for a document of a transitional conformance class:

| Attributes  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |             |      |                                                         |      |                                     |      |                                                                                                                                                                                                                                   |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|------|---------------------------------------------------------|------|-------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------|------|--------------------------------------------------------|------|----------------------------------------------------------------|------|-------------------------------------------------------------|------|------------------------------------------------------|------|----------------------------------------------------------------|------|-----------------------------------------------------------|------|-----------------------------------------------------------|------|----------------------------------------------------------------|------|------------------------------------------------------------|------|-------------------------------------------------------------|------|------------------------------------------------------------|------|-------------------------------------------------------------|------|---------------------------------------------------------|------|-----------------------------------------------------------------------|------|--------------------------------------------------------------|
| val (Value) | <p>Specifies a value specified as single octet (two digit) hexadecimal number whose contents are interpreted based on the context of the parent XML element.</p> <p>The value of this attribute shall be interpreted as follows:</p> <table> <tr> <th>Value</th><th>Description</th></tr> <tr> <td>0x00</td><td>Specifies a Latin character set. (IANA name iso-8859-1)</td></tr> <tr> <td>0x01</td><td>Specifies the default character set</td></tr> <tr> <td>0x02</td><td>Specifies the Symbol character set. This value specifies that the characters in the Unicode private use area (U+FF00 to U+FFFF) of the font should be used to display the corresponding characters in the range U+0000 to U+00FF.</td></tr> <tr> <td>0x4D</td><td>Specifies a Macintosh (Standard Roman) character set. (IANA name macintosh)</td></tr> <tr> <td>0x80</td><td>Specifies the JIS character set. (IANA name shift_jis)</td></tr> <tr> <td>0x81</td><td>Specifies the Hangul character set. (IANA name ks_c-5601-1987)</td></tr> <tr> <td>0x82</td><td>Specifies a Johab character set. (IANA name KS_C-5601-1992)</td></tr> <tr> <td>0x86</td><td>Specifies the GB-2312 character set. (IANA name GBK)</td></tr> <tr> <td>0x88</td><td>Specifies the Chinese Big Five character set. (IANA name Big5)</td></tr> <tr> <td>0xA1</td><td>Specifies a Greek character set. (IANA name windows-1253)</td></tr> <tr> <td>0xA2</td><td>Specifies a Turkish character set. (IANA name iso-8859-9)</td></tr> <tr> <td>0xA3</td><td>Specifies a Vietnamese character set. (IANA name windows-1258)</td></tr> <tr> <td>0xB1</td><td>Specifies a Hebrew character set. (IANA name windows-1255)</td></tr> <tr> <td>0xB2</td><td>Specifies an Arabic character set. (IANA name windows-1256)</td></tr> <tr> <td>0xBA</td><td>Specifies a Baltic character set. (IANA name windows-1257)</td></tr> <tr> <td>0xCC</td><td>Specifies a Russian character set. (IANA name windows-1251)</td></tr> <tr> <td>0xDE</td><td>Specifies a Thai character set. (IANA name windows-874)</td></tr> <tr> <td>0xEE</td><td>Specifies an Eastern European character set. (IANA name windows-1250)</td></tr> <tr> <td>0xFF</td><td>Specifies an OEM character set not defined by ISO/IEC 29500.</td></tr> </table> | Value | Description | 0x00 | Specifies a Latin character set. (IANA name iso-8859-1) | 0x01 | Specifies the default character set | 0x02 | Specifies the Symbol character set. This value specifies that the characters in the Unicode private use area (U+FF00 to U+FFFF) of the font should be used to display the corresponding characters in the range U+0000 to U+00FF. | 0x4D | Specifies a Macintosh (Standard Roman) character set. (IANA name macintosh) | 0x80 | Specifies the JIS character set. (IANA name shift_jis) | 0x81 | Specifies the Hangul character set. (IANA name ks_c-5601-1987) | 0x82 | Specifies a Johab character set. (IANA name KS_C-5601-1992) | 0x86 | Specifies the GB-2312 character set. (IANA name GBK) | 0x88 | Specifies the Chinese Big Five character set. (IANA name Big5) | 0xA1 | Specifies a Greek character set. (IANA name windows-1253) | 0xA2 | Specifies a Turkish character set. (IANA name iso-8859-9) | 0xA3 | Specifies a Vietnamese character set. (IANA name windows-1258) | 0xB1 | Specifies a Hebrew character set. (IANA name windows-1255) | 0xB2 | Specifies an Arabic character set. (IANA name windows-1256) | 0xBA | Specifies a Baltic character set. (IANA name windows-1257) | 0xCC | Specifies a Russian character set. (IANA name windows-1251) | 0xDE | Specifies a Thai character set. (IANA name windows-874) | 0xEE | Specifies an Eastern European character set. (IANA name windows-1250) | 0xFF | Specifies an OEM character set not defined by ISO/IEC 29500. |
| Value       | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |             |      |                                                         |      |                                     |      |                                                                                                                                                                                                                                   |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |
| 0x00        | Specifies a Latin character set. (IANA name iso-8859-1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |             |      |                                                         |      |                                     |      |                                                                                                                                                                                                                                   |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |
| 0x01        | Specifies the default character set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |             |      |                                                         |      |                                     |      |                                                                                                                                                                                                                                   |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |
| 0x02        | Specifies the Symbol character set. This value specifies that the characters in the Unicode private use area (U+FF00 to U+FFFF) of the font should be used to display the corresponding characters in the range U+0000 to U+00FF.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |             |      |                                                         |      |                                     |      |                                                                                                                                                                                                                                   |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |
| 0x4D        | Specifies a Macintosh (Standard Roman) character set. (IANA name macintosh)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |             |      |                                                         |      |                                     |      |                                                                                                                                                                                                                                   |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |
| 0x80        | Specifies the JIS character set. (IANA name shift_jis)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |             |      |                                                         |      |                                     |      |                                                                                                                                                                                                                                   |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |
| 0x81        | Specifies the Hangul character set. (IANA name ks_c-5601-1987)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |      |                                                         |      |                                     |      |                                                                                                                                                                                                                                   |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |
| 0x82        | Specifies a Johab character set. (IANA name KS_C-5601-1992)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |             |      |                                                         |      |                                     |      |                                                                                                                                                                                                                                   |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |
| 0x86        | Specifies the GB-2312 character set. (IANA name GBK)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |             |      |                                                         |      |                                     |      |                                                                                                                                                                                                                                   |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |
| 0x88        | Specifies the Chinese Big Five character set. (IANA name Big5)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |      |                                                         |      |                                     |      |                                                                                                                                                                                                                                   |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |
| 0xA1        | Specifies a Greek character set. (IANA name windows-1253)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |      |                                                         |      |                                     |      |                                                                                                                                                                                                                                   |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |
| 0xA2        | Specifies a Turkish character set. (IANA name iso-8859-9)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |      |                                                         |      |                                     |      |                                                                                                                                                                                                                                   |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |
| 0xA3        | Specifies a Vietnamese character set. (IANA name windows-1258)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |      |                                                         |      |                                     |      |                                                                                                                                                                                                                                   |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |
| 0xB1        | Specifies a Hebrew character set. (IANA name windows-1255)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |             |      |                                                         |      |                                     |      |                                                                                                                                                                                                                                   |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |
| 0xB2        | Specifies an Arabic character set. (IANA name windows-1256)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |             |      |                                                         |      |                                     |      |                                                                                                                                                                                                                                   |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |
| 0xBA        | Specifies a Baltic character set. (IANA name windows-1257)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |             |      |                                                         |      |                                     |      |                                                                                                                                                                                                                                   |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |
| 0xCC        | Specifies a Russian character set. (IANA name windows-1251)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |             |      |                                                         |      |                                     |      |                                                                                                                                                                                                                                   |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |
| 0xDE        | Specifies a Thai character set. (IANA name windows-874)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |             |      |                                                         |      |                                     |      |                                                                                                                                                                                                                                   |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |
| 0xEE        | Specifies an Eastern European character set. (IANA name windows-1250)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |      |                                                         |      |                                     |      |                                                                                                                                                                                                                                   |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |
| 0xFF        | Specifies an OEM character set not defined by ISO/IEC 29500.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |             |      |                                                         |      |                                     |      |                                                                                                                                                                                                                                   |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |

| Attributes | Description                                                                                                                                                                                                                                                                                                                                                                                             |                                      |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
|            | Any other value                                                                                                                                                                                                                                                                                                                                                                                         | Application-defined, can be ignored. |
|            | <p>[Example: Consider the following value for an attribute of type ST_UCharHexNumber:</p> <pre>&lt;... w:val="BE"/&gt;</pre> <p>This value is permitted, as it contains two hexadecimal digits, an encoding of an octet of the actual decimal number value. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_UCharHexNumber simple type (Part 1, §17.18.98).</p> |                                      |

## 14.5 Numbering

### 14.5.1 pict (Picture Numbering Symbol Properties)

This element specifies the properties for a picture which shall be used as a picture numbering symbol in a given document, using the VML syntax.

[Example: Consider the WordprocessingML below illustrating the usage of the pict element in a document containing a single picture numbering symbol:

```
<w:numPicBullet w:numPicBulletId="0">
  <w:pict>
    <v:shapetype id="_x0000_t75" coordsize="21600,21600" o:spt="75"
o:preferrelative="t" path="m@4@51@4@11@9@11@9@5xe" filled="f" stroked="f">
      <v:stroke joinstyle="miter" />
      <v:formulas>
        <v:f eqn="if linedrawn pixelLineWidth 0" />
        <v:f eqn="sum @0 1 0" />
        <v:f eqn="sum @0 0 @1" />
        <v:f eqn="prod @2 1 2" />
        <v:f eqn="prod @3 21600 pixelWidth" />
        <v:f eqn="prod @3 21600 pixelHeight" />
        <v:f eqn="sum @0 0 1" />
        <v:f eqn="prod @6 1 2" />
        <v:f eqn="prod @7 21600 pixelWidth" />
        <v:f eqn="sum @8 21600 0" />
        <v:f eqn="prod @7 21600 pixelHeight" />
        <v:f eqn="sum @10 21600 0" />
      </v:formulas>
      <v:path o:extrusionok="f" gradientshapeok="t" o:connecttype="rect" />
      <o:lock v:ext="edit" aspectratio="t" />
    </v:shapetype>
```

```

<v:shape id="_x0000_i1029" type="#_x0000_t75"
style="width:11.25pt;height:11.25pt" o:bullet="t">
  <v:imagedata r:id="rId1" o:title="sample picture" />
</v:shape>
</w:pict>
</w:numPicBullet>

```

*end example]*

| Parent Elements                 |
|---------------------------------|
| numPicBullet (Part 1, §17.9.21) |

| Child Elements                                                       | Subclause             |
|----------------------------------------------------------------------|-----------------------|
| control (Floating Embedded Control)                                  | §14.2.2.1             |
| movie (Embedded Video)                                               | Part 1,<br>§17.3.3.17 |
| Any element in the urn:schemas-microsoft-com:vml namespace           | §19.1                 |
| Any element in the urn:schemas-microsoft-com:office:office namespace | §19.2                 |

[Note: The W3C XML Schema definition of this element's content model (CT Picture) is located in §A.1. *end note]*

## 14.6 Annotations

### 14.6.1 Revisions

#### 14.6.1.1 numberingChange (Previous Numbering Field Properties)

This element specifies the previous state of the numbering displayed by a LISTNUM field (Part 1, §17.16.5.33) within a WordprocessingML document when additional LISTNUM fields are added and revisions are being tracked.

[*Rationale:* The legacy numbering mechanism provided by the LISTNUM field relies on the presence of fields in the run content of the document, rather than being a paragraph property (as numbering typically is represented). For this reason, these fields must store their previous state as a unique revision type on the field character of the numbering field. *end rationale]*

If this element is supplied for a field which is not of type LISTNUM as defined by its field codes (Part 1, §17.16.5), then this property shall be ignored.

[*Example:* Consider the following paragraph containing a single LISTNUM field, as follows:



Some 1. text

If another LISTNUM field is added before it in the document, resulting in its evaluation to a different number, as follows:

Some ~~1.~~2. text

This revision to the field result would be stored as follows in the WordprocessingML:

```
<w:fldChar w:fldCharType="begin">
  <w:numberingChange w:id="0" ... w:original="1." />
</w:fldChar>
<w:r>
  <w:instrText>LISTNUM</w:instrText>
</w:r>
<w:fldChar w:fldCharType="separate"/>
<w:r>
  <w:t>2.</w:t>
</w:r>
<w:fldChar w:fldCharType="end" />
```

The numberingChange element specifies that the numbering resulting from this LISTNUM field was modified and this change was tracked as a revision. The previous numbering result of 1. is cached in the original attribute. *end example*]

For numbering fields, the original attribute shall specify the previous numbering displayed by the parent LISTNUM field within a WordprocessingML document. This information is a performance-enhancing cache of the state of the numbering before the revision to allow applications to show the previous state without having to recalculate all of the LISTNUM fields in the document.

If this attribute is omitted, then no previous numbering value is implied and applications can choose to calculate this value, or display no previous numbering value.

[*Example:* Consider the following paragraph containing a single LISTNUM field with a revision, as follows:

Some ~~1.~~2. text

This revision to the field result would be stored as follows in the WordprocessingML:

```
<w:fldChar w:fldCharType="begin">
  <w:numberingChange w:id="0" ... w:original="1." />
</w:fldChar>
```

The original attribute specifies that the previous numbering value of the field was 1. *end example*]

| Parent Elements             |
|-----------------------------|
| fldChar (Part 1, §17.16.18) |

| Attributes                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| author (Annotation Author) | <p>Specifies the author for an annotation within a WordprocessingML document.</p> <p>If this attribute is omitted, then no author shall be associated with the parent annotation type.</p> <p>[Example: Consider a comment represented using the following WordprocessingML fragment:</p> <pre>&lt;... w:id="1" w:author="Example Author"&gt; ... &lt;/...&gt;</pre> <p>The author attribute specifies that the author of the current annotation is Example Author, which can be used as desired. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_String simple type (Part 1, §22.9.2.13).</p>                                                                                                        |
| date (Annotation Date)     | <p>Specifies the date information for an annotation within a WordprocessingML document. The use of this information is outside of the scope of ISO/IEC 29500.</p> <p>If this attribute is omitted, then no date information shall be associated with the parent annotation type.</p> <p>[Example: Consider a comment represented using the following WordprocessingML fragment:</p> <pre>&lt;... w:id="1" w:date="2006-01-01T10:00:00"&gt; ... &lt;/...&gt;</pre> <p>The date attribute specifies that the date of the current annotation is January 1st 2006 at 10:00 AM, which can be used as desired. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_DateTime simple type (Part 1, §17.18.9).</p> |
| id (Annotation Identifier) | <p>Specifies a unique identifier for an annotation within a WordprocessingML document. The restrictions on the id attribute, if any, are defined by the parent XML element.</p> <p>If this attribute is omitted, then the document is non-conformant.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| Attributes                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                     | <p>[<i>Example:</i> Consider an annotation represented using the following WordprocessingML fragment:</p> <pre>&lt;... w:id="1" ... &gt; ... &lt;/...&gt;</pre> <p>The id attribute specifies that the ID of the current annotation is 1. This value is used to uniquely identify this annotation within the document content. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_DecimalNumber simple type (Part 1, §17.18.10).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| original (Previous Numbering Value) | <p>Specifies the previous numbering displayed by the parent numbering change revision. Its format is specified by the parent element.</p> <p>If this attribute is omitted, then no previous numbering value is implied and applications can choose to calculate this value, or display no previous numbering value.</p> <p>[<i>Example:</i> Consider the following paragraph containing a single LISTNUM field with a revision, as follows:</p> <p style="text-align: center;">Some <del>1</del><ins>2</ins>. text</p> <p>This revision to the field result would be stored as follows in the WordprocessingML:</p> <pre>&lt;w:fldChar w:fldCharType="begin"&gt;   &lt;w:numberingChange w:id="0" ... w:original="1." /&gt; &lt;/w:fldChar&gt;</pre> <p>The original attribute specifies that the previous numbering value of the field was 1. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_String simple type (Part 1, §22.9.2.13).</p> |

[*Note:* The W3C XML Schema definition of this element's content model ([CT\\_TrackChangeNumbering](#)) is located in §A.1. *end note*]

#### 14.6.1.2 numberingChange (Previous Paragraph Numbering Properties)

This element specifies the previous state of the numbering on a paragraph when revisions are being tracked.

[*Rationale:* This mechanism is simply used to provide storage for revisions to numbering produced by legacy word processing applications, and applications are encouraged to use the pPrChange element to store these changes as changes to the paragraph properties instead. *end rationale*]

[Example: Consider the following list using Arabic numerals as the numbering, as follows:

1. one
2. two
3. three

Consider a revision where the numbering definition is changed from Arabic numerals to Roman numerals, as follows:

- i. one
- ii. two
- iii. three

This revision to the numbering definition would be stored as follows in the WordprocessingML:

```
<w:p>
  <w:pPr>
    <w:numPr>
      <w:ilvl w:val="0" />
      <w:numId w:val="1" />
      <w:numberingChange w:id="0" ... w:original="%1:1:0:." />
    </w:numPr>
  </w:pPr>
  <w:r>
    <w:t>one</w:t>
  </w:r>
</w:p>
<w:p>
  <w:pPr>
    <w:numPr>
      <w:ilvl w:val="0" />
      <w:numId w:val="1" />
      <w:numberingChange w:id="1" ... w:original="%1:2:0:." />
    </w:numPr>
  </w:pPr>
  <w:r>
    <w:t>two</w:t>
  </w:r>
</w:p>
<w:p>
  <w:pPr>
    <w:numPr>
      <w:ilvl w:val="0" />
      <w:numId w:val="1" />
```

```

        <w:numberingChange w:id="2" ... w:original="%1:3:0:." />
    </w:numPr>
</w:pPr>
<w:r>
    <w:t>three</w:t>
</w:r>
</w:p>

```

The numberingChange element specifies that the numbering definition was modified and this change was tracked as a revision. The previous Arabic numeral numbering definition is cached in the original attribute. *end example*

For paragraph numbering, the original attribute shall specify the previous numbering definition for an individual paragraph of text within a WordprocessingML document while revisions are being tracked.

The value of original is represented as separate numbering level definitions defined as follows:

```

<%[numbering level]:[nfc value]:[numbering format]:[separator]>[repeat if more
than one level]

```

where

- **numbering level** – The level for which the numbering definition is defined
- **nfc value** – The value of the numbering style at the specific numbering level
- **numbering format** – The nfc value of the numbering format, as referenced in the table below.
- **separator** – The separator used to separate the numbering level definitions

The numbering format values are mapped as follows:

| nfc Value | ST_NumberFormat enumeration equivalent |
|-----------|----------------------------------------|
| 0         | decimal                                |
| 1         | upperRoman                             |
| 2         | lowerRoman                             |
| 3         | upperLetter                            |
| 4         | lowerLetter                            |
| 5         | ordinal                                |
| 6         | cardinalText                           |
| 7         | ordinalText                            |
| 8         | hex                                    |
| 9         | chicago                                |
| 10        | ideographDigital                       |
| 11        | japaneseCounting                       |
| 12        | Aiueo                                  |

| nfc Value | ST_NumberFormat enumeration equivalent |
|-----------|----------------------------------------|
| 13        | Iroha                                  |
| 14        | decimalFullWidth                       |
| 15        | decimalHalfWidth                       |
| 16        | japaneseLegal                          |
| 17        | japaneseDigitalTenThousand             |
| 18        | decimalEnclosedCircle                  |
| 19        | decimalFullWidth2                      |
| 20        | aiueoFullWidth                         |
| 21        | irohaFullWidth                         |
| 22        | decimalZero                            |
| 23        | bullet                                 |
| 24        | ganada                                 |
| 25        | chosung                                |
| 26        | decimalEnclosedFullstop                |
| 27        | decimalEnclosedParen                   |
| 28        | decimalEnclosedCircleChinese           |
| 29        | ideographEnclosedCircle                |
| 30        | ideographTraditional                   |
| 31        | ideographZodiac                        |
| 32        | ideographZodiacTraditional             |
| 33        | taiwaneseCounting                      |
| 34        | ideographLegalTraditional              |
| 35        | taiwaneseCountingThousand              |
| 36        | taiwaneseDigital                       |
| 37        | chineseCounting                        |
| 38        | chineseLegalSimplified                 |
| 39        | chineseCountingThousand                |
| 40        | Application-defined. Can be ignored.   |
| 41        | koreanDigital                          |
| 42        | koreanCounting                         |
| 43        | koreanLegal                            |
| 44        | koreanDigital2                         |
| 45        | hebrew1                                |
| 46        | arabicAlpha                            |
| 47        | hebrew2                                |
| 48        | arabicAbjad                            |
| 49        | hindiVowels                            |
| 50        | hindiConsonants                        |

| nfc Value   | ST_NumberFormat enumeration equivalent |
|-------------|----------------------------------------|
| 51          | hindiNumbers                           |
| 52          | hindiCounting                          |
| 53          | thaiLetters                            |
| 54          | thaiNumbers                            |
| 55          | thaiCounting                           |
| 56          | vietnameseCounting                     |
| 57          | numberInDash                           |
| 58          | russianLower                           |
| 59          | russianUpper                           |
| 60 or above | Application-defined. Can be ignored.   |

[Example: Consider the following numbered paragraph where the numbering definition has changed while revisions are being tracked, as follows:

~~1.1.1.~~ Three

This revision to the numbered paragraph would be stored as follows in the WordprocessingML:

```
<w:numPr>
...
  <w:numberingChange ... w:original="%1:1:0:..%2:1:2:..%3:1:0:.." />
</w:numPr>
```

In the above example there are three levels in the original numbering definition, thus three numbering level definitions are needed to represent the original numbering definition.

The first level is specified by %1, and says that it was number value 1 in the nfc format 0 (arabic).

The original attribute specifies that the previous numbering definition was made up of three levels whose value was 1.i.1.. end example]

| Parent Elements            |
|----------------------------|
| numPr (Part 1, §17.3.1.19) |

| Attributes                 | Description                                                                                                                                                                                                                                                                     |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| author (Annotation Author) | <p>Specifies the author for an annotation within a WordprocessingML document.</p> <p>If this attribute is omitted, then no author shall be associated with the parent annotation type.</p> <p>[Example: Consider a comment represented using the following WordprocessingML</p> |

| Attributes                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | <p>fragment:</p> <pre>&lt;... w:id="1" w:author="Example Author"&gt; ... &lt;/...&gt;</pre> <p>The author attribute specifies that the author of the current annotation is Example Author, which can be used as desired. <i>end example</i></p> <p>The possible values for this attribute are defined by the ST_String simple type (Part 1, §22.9.2.13).</p>                                                                                                                                                                                                                                                                                                                                                                                 |
| date (Annotation Date)     | <p>Specifies the date information for an annotation within a WordprocessingML document. The use of this information is outside of the scope of ISO/IEC 29500.</p> <p>If this attribute is omitted, then no date information shall be associated with the parent annotation type.</p> <p>[Example: Consider a comment represented using the following WordprocessingML fragment:</p> <pre>&lt;... w:id="1" w:date="2006-01-01T10:00:00"&gt; ... &lt;/...&gt;</pre> <p>The date attribute specifies that the date of the current annotation is January 1st 2006 at 10:00 AM, which can be used as desired. <i>end example</i></p> <p>The possible values for this attribute are defined by the ST_DateTime simple type (Part 1, §17.18.9).</p> |
| id (Annotation Identifier) | <p>Specifies a unique identifier for an annotation within a WordprocessingML document. The restrictions on the id attribute, if any, are defined by the parent XML element.</p> <p>If this attribute is omitted, then the document is non-conformant.</p> <p>[Example: Consider an annotation represented using the following WordprocessingML fragment:</p> <pre>&lt;... w:id="1" ... &gt; ... &lt;/...&gt;</pre> <p>The id attribute specifies that the ID of the current annotation is 1. This value is used to uniquely identify this annotation within the document content. <i>end example</i></p> <p>The possible values for this attribute are defined by the ST_DecimalNumber simple type (Part 1, §17.18.10).</p>                  |



| Attributes                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| original (Previous Numbering Value) | <p>Specifies the previous numbering displayed by the parent numbering change revision. Its format is specified by the parent element.</p> <p>If this attribute is omitted, then no previous numbering value is implied and applications can choose to calculate this value, or display no previous numbering value.</p> <p>[<i>Example</i>: Consider the following paragraph containing a single LISTNUM field with a revision, as follows:</p> <p style="text-align: center;">Some <del>1</del><u>2</u>. text</p> <p>This revision to the field result would be stored as follows in the WordprocessingML:</p> <pre>&lt;w:fldChar w:fldCharType="begin"&gt;   &lt;w:numberingChange w:id="0" ... w:original="1." /&gt; &lt;/w:fldChar&gt;</pre> <p>The original attribute specifies that the previous numbering value of the field was 1. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_String simple type (Part 1, §22.9.2.13).</p> |

[*Note*: The W3C XML Schema definition of this element's content model ([CT\\_TrackChangeNumbering](#)) is located in §A.1. *end note*]

## 14.7 Settings

### 14.7.1 Legacy Password Hash Algorithm

When a password hash value is stored using the transitional hashing mechanism described in the following subclause, that process shall be done in two stages:

The following steps assume that all words are unsigned, the word size is two bytes, and that bit-level SHL/SHR operations shift in the direction of the highest-order and lowest-order bit, respectively. [*Example*: 0x61 SHR 1 is 0xC2, as 01100001 shifted one position in the direction of its highest-order bit is 11000010. *end example*]

The UTF-16LE encoded password shall be hashed using the following algorithm (if there is a leading BOM character (U+FEFF) in the encoded password it is removed before hash calculation):

- Passwords of 15 or fewer characters shall be used in the hash without further change; passwords longer than 15 characters shall be truncated to 15 characters.
- Construct a new NULL-terminated string consisting of single-byte values using the algorithm described by the following bullet. The input to this step should be the series of UTF-16 characters defined above:

- Get the single-byte values by iterating through the Unicode characters of the truncated password. For each character, if the low byte is not equal to 0, take it. Otherwise, take the high byte.
- From now on, the single-byte character string is used.
- If the password is empty, return 0.
- Compute the high-order word of the new key:
  - Initialize from the initial code array (see below), depending on the password's length. For each character in the password:
    - For every bit in the character, starting with the least significant and progressing to (but excluding) the most significant, if the bit is set, XOR the key's high-order word with the corresponding word from the encryption matrix
- Compute the low-order word of the new key:
  - Initialize with 0
  - For each character in the password, going backwards, low-order word = (((low-order word SHR 14) AND 0x0001) OR (low-order word SHL 1) AND 0x7FFF) XOR character
  - Lastly, low-order word = (((low-order word SHR 14) AND 0x0001) OR (low-order word SHL 1) AND 0x7FFF) XOR password length XOR 0xCE4B.

#### Initial code array

The initial code array contains the initial values for the key's high-order word. The initial value depends on the length of the password, as follows:

| Password length | Initial value for the key's high-order word |
|-----------------|---------------------------------------------|
| 1               | 0xE1F0                                      |
| 2               | 0x1D0F                                      |
| 3               | 0xCC9C                                      |
| 4               | 0x84C0                                      |
| 5               | 0x110C                                      |
| 6               | 0x0E10                                      |
| 7               | 0xF1CE                                      |
| 8               | 0x313E                                      |
| 9               | 0x1872                                      |
| 10              | 0xE139                                      |
| 11              | 0xD40F                                      |
| 12              | 0x84F9                                      |
| 13              | 0x280C                                      |

| Password length | Initial value for the key's high-order word |
|-----------------|---------------------------------------------|
| 14              | 0xA96A                                      |
| 15              | 0x4EC3                                      |

### Encryption matrix

The encryption matrix contains codes used during the calculation of the key's high-order word. As described in the algorithm above, for every bit of the password's characters, if the bit is set, a corresponding value is taken from this encryption matrix and is used to XOR the key's high-order word with it. Each row in the encryption matrix corresponds to a single character from the password, and each of the seven columns corresponds to a particular bit (0-6) in this character.

The values are taken in such a way so that the last character of the password uses the last row in the encryption matrix. The next-to-last character uses the next-to-last row in the matrix, and so on. This means that the beginning of the matrix might be unused, depending on the length of the password.

|         | Bit 0  | Bit 1  | Bit 2  | Bit 3  | Bit 4  | Bit 5  | Bit 6  |
|---------|--------|--------|--------|--------|--------|--------|--------|
| Last-14 | 0xAEFC | 0x4DD9 | 0x9BB2 | 0x2745 | 0x4E8A | 0x9D14 | 0x2A09 |
| Last-13 | 0x7B61 | 0xF6C2 | 0xFDA5 | 0xEB6B | 0xC6F7 | 0x9DCF | 0x2BBF |
| Last-12 | 0x4563 | 0x8AC6 | 0x05AD | 0x0B5A | 0x16B4 | 0x2D68 | 0x5AD0 |
| Last-11 | 0x0375 | 0x06EA | 0x0DD4 | 0x1BA8 | 0x3750 | 0x6EA0 | 0xDD40 |
| Last-10 | 0xD849 | 0xA0B3 | 0x5147 | 0xA28E | 0x553D | 0xAA7A | 0x44D5 |
| Last-9  | 0x6F45 | 0xDE8A | 0xAD35 | 0x4A4B | 0x9496 | 0x390D | 0x721A |
| Last-8  | 0xEB23 | 0xC667 | 0x9CEF | 0x29FF | 0x53FE | 0xA7FC | 0x5FD9 |
| Last-7  | 0x47D3 | 0x8FA6 | 0x0F6D | 0x1EDA | 0x3DB4 | 0x7B68 | 0xF6D0 |
| Last-6  | 0xB861 | 0x60E3 | 0xC1C6 | 0x93AD | 0x377B | 0x6EF6 | 0xDDEC |
| Last-5  | 0x45A0 | 0x8B40 | 0x06A1 | 0x0D42 | 0x1A84 | 0x3508 | 0x6A10 |
| Last-4  | 0xAA51 | 0x4483 | 0x8906 | 0x022D | 0x045A | 0x08B4 | 0x1168 |
| Last-3  | 0x76B4 | 0xED68 | 0xCAF1 | 0x85C3 | 0x1BA7 | 0x374E | 0x6E9C |
| Last-2  | 0x3730 | 0x6E60 | 0xDCC0 | 0xA9A1 | 0x4363 | 0x86C6 | 0x1DAD |
| Last-1  | 0x3331 | 0x6662 | 0xCCC4 | 0x89A9 | 0x0373 | 0x06E6 | 0x0DCC |
| Last    | 0x1021 | 0x2042 | 0x4084 | 0x8108 | 0x1231 | 0x2462 | 0x48C4 |

[Example: Consider a password which has been supplied - the string "Example". It is already under 15 characters, so truncation does not affect it. It is then converted to a string of single-byte characters.

- The password is 7 characters long, so, from the initial code array, the initial value for the key's high-order word is 0xF1CE.
- The key's high-order word is then computed further depending on the password's characters:

- The first character is 'E' (0x45). This is the first character of a 7-character password, so its corresponding row in the encryption matrix is "Last-6".
  - Bit 0 is set, therefore the key's high-order word is combined (via XOR) with the corresponding value for Bit 0 on row "Last-6", which is 0xB861. The new result is 0xF1CE XOR 0xB861 = 0x49AF.
  - Bit 2 is set, so the key's high-order word is XOR-ed with the corresponding value for Bit 2 on row "Last-6", which is 0xC1C6. The new result is 0x49AF XOR 0xC1C6 = 0x8869.
  - This process is repeated for each bit.
- The next character is 'x' (0x78). Its corresponding row in the encryption matrix is "Last-5".
  - Bit 3 is set. The value for Bit 3 on row "Last-5" in the encryption matrix is 0x0D42. The current value for the key's high-order byte is 0x5585, so the new one should be 0x5585 XOR 0x0D42 = 0x58C7.
  - This process is repeated for each bit.
- This process is repeated for all characters.
- After the last character has been processed, the above step produced 0x64CE for the key's high-order word. Now the low-order word needs to be calculated:
  - The initial value is 0.
  - It is then calculated using the password:
    - The last character of the password is 'e' (0x65), so, by the formula, low-order word = (((low-order word SHR 14) AND 0x0001) OR ((low-order word SHL 1) AND 0x7FFF)) XOR 'e' = (((0 SHR 14) AND 0x0001) OR ((0 SHL 1) AND 0x7FFF)) XOR 0x65 = 0x0065.
    - The next to last character of the password is 'l' (0x6C). Again, by the formula, (((0x0065 SHR 14) AND 0x0001) OR ((0x0065 SHL 1) AND 0x7FFF)) XOR 0x6C = (0x0000 OR 0x00CA) XOR 0x6C = 0x00CA XOR 0x6C = 0x00A6.
    - This process is repeated for each character.
  - After the password's first character has been processed, we have 0x1199 for the key's low-order word. Lastly, the password's length is combined into it: low-order word = (((0x1199 SHR 14) AND 0x0001) OR ((0x1199 SHL 1) AND 0x7FFF)) XOR 0x0007 XOR 0xCE4B = 0x2332 XOR 0x0007 XOR 0xCE4B = 0x2335 XOR 0xCE4B = 0xED7E.
- The end result for the key is 0x64CEED7E.

*end example]*

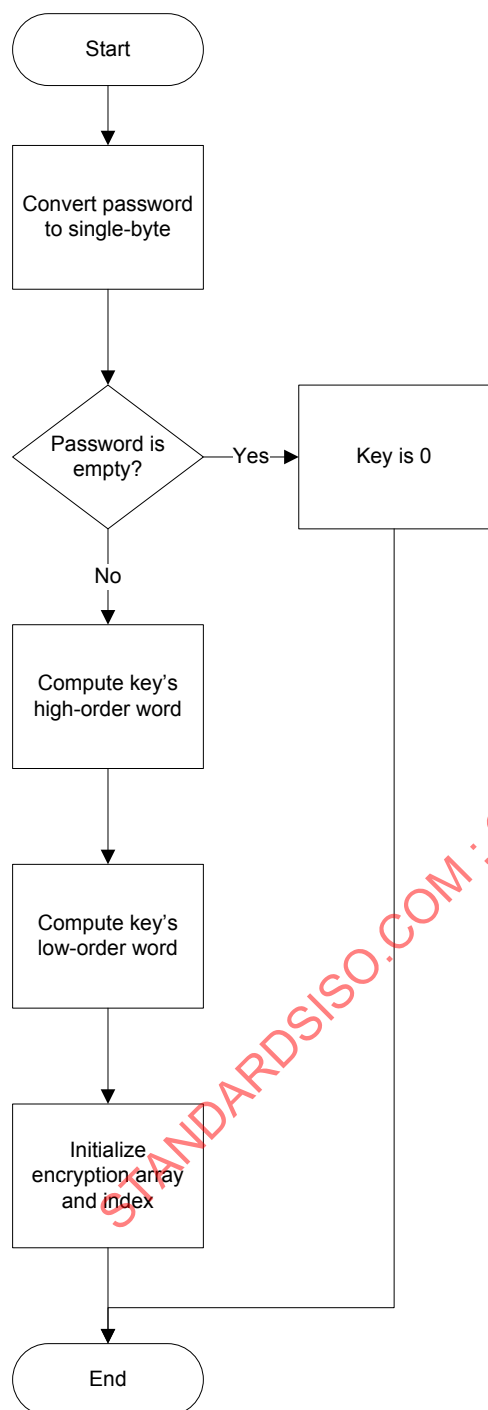
[*Rationale:* This pre-processing step is necessary for compatibility with legacy word processing applications which hashed their password solely using this mechanism. *end rationale]*

Second, the byte order of the result shall be reversed [*Example: 0x64CEED7E becomes 7EEDCE64. end example*], and that value shall be hashed as defined by the attribute values.

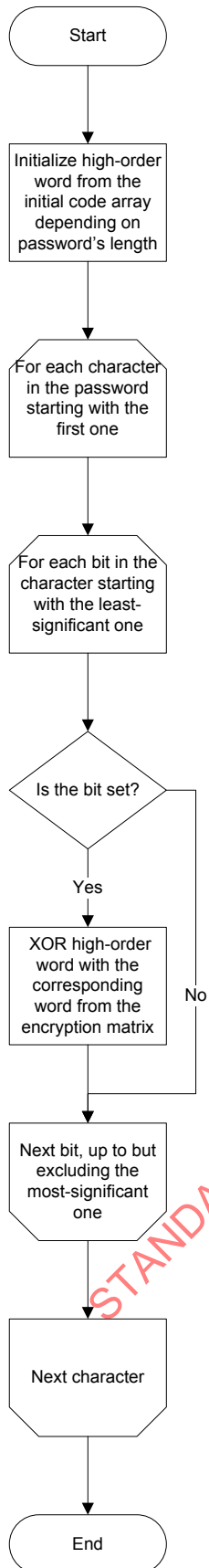
[*Note: The algorithm above can be stated as follows using diagrams:*

STANDARDSISO.COM : Click to view the full PDF of ISO/IEC 29500-4:2011

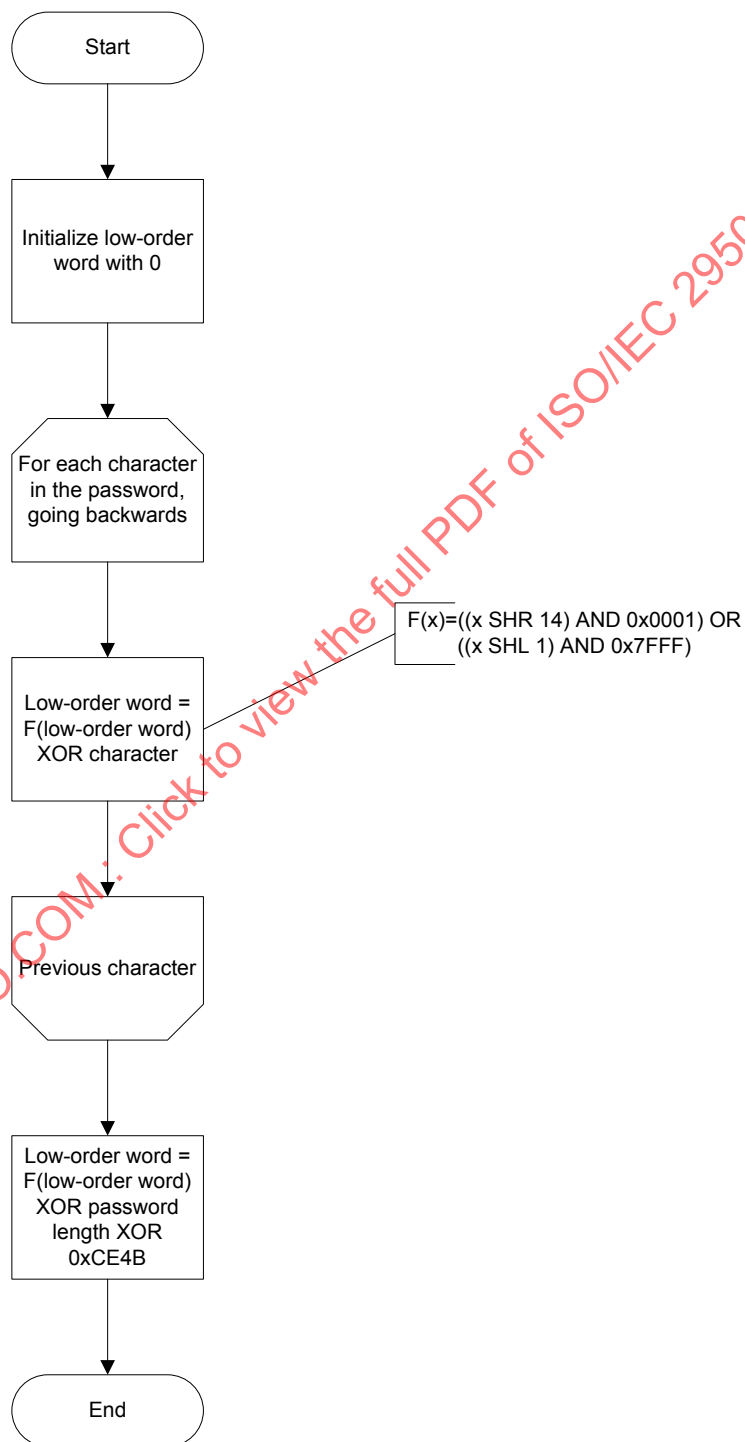
# Calculate Key



# Compute Key's High-Order Word



# Compute Key's Low-Order Word



end note]



[*Example:* Consider a WordprocessingML document which specifies that applications must not allow any modifications to this document other than the addition of comments. This requirement would be specified using the following WordprocessingML in the document settings:

```
<w:documentProtection w:edit="comments" w:enforcement="true" ...
  w:cryptAlgorithmClass="hash" w:cryptAlgorithmType="typeAny"
  w:cryptAlgorithmSid="1" w:hash="9oN7nWkCAyEZib1RomSJTjmPpCY=" />
```

The documentProtection element has an edit attribute value of comments, specifying that the only modification allowed should be comments, the enforcement attribute has a value of true, specifying that the document protection specified is to be enforced on the given document. Finally, in order for the hosting application to stop enforcement of the document protection applied to the document, the hosting application would have to be provided with a password that the hosting application would then hash, compare to the value of the hash attribute (9oN7nWkCAyEZib1RomSJTjmPpCY=), and if the two values matched, halt enforcement of any document protection. *end example*]

## 14.7.2 Document Settings

### 14.7.2.1 hdrShapeDefaults (Default Properties for VML Objects in Header and Footer)

This element specifies the default parameters for object using the VML syntax (§19.1) inserted in the header and footer of a WordprocessingML document. The definition and semantics of these parameters is described in the VML - Office Drawing subclause (§19.2) of ISO/IEC 29500.

If this element is omitted, then no default properties are applied to VML objects in the header and footer of this document.

[*Example:* Consider a WordprocessingML document whose document settings contain the following markup:

```
<w:hdrShapeDefaults>
  <o:shapedefaults v:ext="edit" spidmax="2050" fillcolor="none [3207]"
strokecolor="none [3041]">
    <v:fill color="none [3207]" />
    <v:stroke color="none [3041]" weight="3pt" />
    <v:shadow on="t" type="perspective" color="none [1607]" opacity=".5"
offset="1pt" offset2="1pt" />
  </o:shapedefaults>
  <o:shapelayout v:ext="edit">
    <o:idmap v:ext="edit" data="2" />
  </o:shapelayout>
</w:hdrShapeDefaults>
```

The hdrShapeDefaults element specifies a set of shape defaults which must be applied to the set of all shapes present in the header and footer of this document. *end example*]

| Parent Elements                |
|--------------------------------|
| settings (Part 1, §17.15.1.78) |

| Child Elements                                                       | Subclause |
|----------------------------------------------------------------------|-----------|
| Any element in the urn:schemas-microsoft-com:office:office namespace | §19.2     |

[Note: The W3C XML Schema definition of this element's content model ([CT\\_ShapeDefaults](#)) is located in §A.1. *end note*]

#### 14.7.2.2 [shapeDefaults \(Default Properties for VML Objects in Main Document\)](#)

This element specifies the default parameters for object using the VML syntax (§19.1) inserted in the body (the main document story, comments, footnotes, and endnotes) of the WordprocessingML document. The definition and semantics of these parameters is described in the VML - Office Drawing subclause (§19.2) of ISO/IEC 29500.

If this element is omitted, then no default properties are applied to VML objects in the body of this document.

[Example: Consider a WordprocessingML document whose document settings contain the following markup:

```
<w:shapeDefaults>
  <o:shapedefaults v:ext="edit" spidmax="1026" />
  <o:shapelayout v:ext="edit">
    <o:idmap v:ext="edit" data="1" />
  </o:shapelayout>
</w:shapeDefaults>
```

The shapeDefaults element specifies a set of shape defaults which must be applied to the set of all shapes present in the body document. *end example*]

| Parent Elements                |
|--------------------------------|
| settings (Part 1, §17.15.1.78) |

| Child Elements                                                       | Subclause |
|----------------------------------------------------------------------|-----------|
| Any element in the urn:schemas-microsoft-com:office:office namespace | §19.2     |

[Note: The W3C XML Schema definition of this element's content model ([CT\\_ShapeDefaults](#)) is located in §A.1. *end note*]

#### 14.7.2.3 [Additional attributes for documentProtection element \(Part 1, §17.15.1.29\)](#)

The following additional attributes can be specified for a document of a transitional conformance class:

| Attributes                                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>algIdExt</b><br>(Cryptographic Algorithm Extensibility)    | <p>Specifies that a cryptographic algorithm which was not defined by ISO/IEC 29500 has been used to generate the hash value stored with this document.</p> <p>This value, when present, shall be interpreted based on the value of the algIdExtSource attribute in order to determine the algorithm used, which shall be application-defined. [Rationale: This extensibility affords the fact that with exponentially increasing computing power, documents created in the future might need to utilize as yet undefined hashing algorithms in order to remain secure. <i>end rationale</i>]</p> <p>If this value is present, the cryptAlgorithmClass, cryptAlgorithmType, and cryptAlgorithmSid attribute values shall be ignored in favor of the algorithm defined by this attribute.</p> <p>[Example: Consider a WordprocessingML document with the following information stored in one of its protection elements:</p> <pre>&lt;... w:algIdExt="0000000A"       w:algIdExtSource="futureCryptography"       w:hash="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre> <p>The algIdExt attribute value of 0000000A specifies that the algorithm with hex code A must be used as defined by the futureCryptography application. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_LongHexNumber simple type (Part 1, §17.18.50).</p> |
| <b>algIdExtSource</b><br>(Algorithm Extensibility Source)     | <p>Specifies the application which defined the algorithm value specified by the algIdExt attribute.</p> <p>[Example: Consider a WordprocessingML document with the following information stored in one of its protection elements:</p> <pre>&lt;... w:algIdExt="0000000A"       w:algIdExtSource="futureCryptography"       w:hash="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre> <p>The algIdExtSource attribute value of futureCryptography specifies that the algorithm used here was published by the futureCryptography application. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_String simple type (Part 1, §22.9.2.13).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>cryptAlgorithmClass</b><br>(Cryptographic Algorithm Class) | <p>Specifies the class of cryptographic algorithm used by this protection. [Note: The initial version of ISO/IEC 29500 only supports a single version - hash - but future versions can expand this as necessary. <i>end note</i>]</p> <p>[Example: Consider a WordprocessingML document with the following information stored in one of its protection elements:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| Attributes                                             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |    |         |    |         |    |         |                 |                               |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|---|-----|---|-----|---|-----|---|-------|---|-----|---|--------|---|------------|---|-------------------------------|---|------|----|-------------------------------|----|-------------------------------|----|---------|----|---------|----|---------|-----------------|-------------------------------|
|                                                        | <pre>&lt;... w:cryptAlgorithmClass="hash"       w:cryptAlgorithmType="typeAny"       w:cryptAlgorithmSid="1"       w:hash="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre> <p>The cryptAlgorithmClass attribute value of hash specifies that the algorithm used for the password is a hashing algorithm. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_AlgClass simple type (§20.1.2.1).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |    |         |    |         |    |         |                 |                               |
| cryptAlgorithmSid<br>(Cryptographic Hashing Algorithm) | <p>Specifies the specific cryptographic hashing algorithm which shall be used along with the salt attribute and user-supplied password in order to compute a hash value for comparison.</p> <p>The possible values for this attribute shall be interpreted as follows:</p> <table data-bbox="415 821 1351 1631"> <tr> <th>Value</th><th>Algorithm</th></tr> <tr><td>1</td><td>MD2</td></tr> <tr><td>2</td><td>MD4</td></tr> <tr><td>3</td><td>MD5</td></tr> <tr><td>4</td><td>SHA-1</td></tr> <tr><td>5</td><td>MAC</td></tr> <tr><td>6</td><td>RIPEMD</td></tr> <tr><td>7</td><td>RIPEMD-160</td></tr> <tr><td>8</td><td>Undefined. Shall not be used.</td></tr> <tr><td>9</td><td>HMAC</td></tr> <tr><td>10</td><td>Undefined. Shall not be used.</td></tr> <tr><td>11</td><td>Undefined. Shall not be used.</td></tr> <tr><td>12</td><td>SHA-256</td></tr> <tr><td>13</td><td>SHA-384</td></tr> <tr><td>14</td><td>SHA-512</td></tr> <tr><td>Any other value</td><td>Undefined. Shall not be used.</td></tr> </table> <p>[<i>Example:</i> Consider a WordprocessingML document with the following information stored in one of its protection elements:</p> <pre>&lt;... w:cryptAlgorithmClass="hash"       w:cryptAlgorithmType="typeAny"       w:cryptAlgorithmSid="4"</pre> | Value | Algorithm | 1 | MD2 | 2 | MD4 | 3 | MD5 | 4 | SHA-1 | 5 | MAC | 6 | RIPEMD | 7 | RIPEMD-160 | 8 | Undefined. Shall not be used. | 9 | HMAC | 10 | Undefined. Shall not be used. | 11 | Undefined. Shall not be used. | 12 | SHA-256 | 13 | SHA-384 | 14 | SHA-512 | Any other value | Undefined. Shall not be used. |
| Value                                                  | Algorithm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |    |         |    |         |    |         |                 |                               |
| 1                                                      | MD2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |    |         |    |         |    |         |                 |                               |
| 2                                                      | MD4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |    |         |    |         |    |         |                 |                               |
| 3                                                      | MD5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |    |         |    |         |    |         |                 |                               |
| 4                                                      | SHA-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |    |         |    |         |    |         |                 |                               |
| 5                                                      | MAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |    |         |    |         |    |         |                 |                               |
| 6                                                      | RIPEMD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |    |         |    |         |    |         |                 |                               |
| 7                                                      | RIPEMD-160                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |    |         |    |         |    |         |                 |                               |
| 8                                                      | Undefined. Shall not be used.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |    |         |    |         |    |         |                 |                               |
| 9                                                      | HMAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |    |         |    |         |    |         |                 |                               |
| 10                                                     | Undefined. Shall not be used.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |    |         |    |         |    |         |                 |                               |
| 11                                                     | Undefined. Shall not be used.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |    |         |    |         |    |         |                 |                               |
| 12                                                     | SHA-256                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |    |         |    |         |    |         |                 |                               |
| 13                                                     | SHA-384                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |    |         |    |         |    |         |                 |                               |
| 14                                                     | SHA-512                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |    |         |    |         |    |         |                 |                               |
| Any other value                                        | Undefined. Shall not be used.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |    |         |    |         |    |         |                 |                               |

| Attributes                                                                | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                           | <p><code>w:hash="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</code></p> <p>The <code>cryptAlgorithmSid</code> attribute value of 4 specifies that the SHA-1 hashing algorithm must be used to generate a hash from the user-defined password. <i>end example</i></p> <p>The possible values for this attribute are defined by the <code>ST_DecimalNumber</code> simple type (Part 1, §17.18.10).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <p><code>cryptAlgorithmType</code><br/>(Cryptographic Algorithm Type)</p> | <p>Specifies the type of cryptographic algorithm used by this protection. [Note: The initial version of ISO/IEC 29500 only supports a single algorithm type - <code>typeAny</code> - but future versions can expand this as necessary. <i>end note</i>]</p> <p>[Example: Consider a <code>WordprocessingML</code> document with the following information stored in one of its protection elements:</p> <pre>&lt;... w:cryptAlgorithmClass="hash"       w:cryptAlgorithmType="typeAny"       w:cryptAlgorithmSid="1"       w:hash="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre> <p>The <code>cryptAlgorithmType</code> attribute value of <code>typeAny</code> specifies that any type of algorithm might have been used for the password. <i>end example</i></p> <p>The possible values for this attribute are defined by the <code>ST_AlgType</code> simple type (§20.1.2.2).</p>                                                                                                                      |
| <p><code>cryptProvider</code><br/>(Cryptographic Provider)</p>            | <p>Specifies the cryptographic provider which was used to generate the hash value stored in this document. If the user provided a cryptographic provider which was not the system's built-in provider, then that provider shall be stored here so it can subsequently be used if available.</p> <p>If this attribute is omitted, then the built-in cryptographic provider on the system shall be used.</p> <p>[Example: Consider a <code>WordprocessingML</code> document with the following information stored in one of its protection elements:</p> <pre>&lt;... w:cryptProvider="Krista'sProvider"       w:hash="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre> <p>The <code>cryptProvider</code> attribute value of <code>Krista'sProvider</code> specifies that the cryptographic provider with name "Krista's Provider" must be used if available. <i>end example</i></p> <p>The possible values for this attribute are defined by the <code>ST_String</code> simple type (Part 1, §22.9.2.13).</p> |
| <p><code>cryptProviderType</code><br/>(Cryptographic</p>                  | <p>Specifies the type of cryptographic provider to be used.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

| Attributes                                                       | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Provider Type)                                                   | <p>[<i>Example:</i> Consider a WordprocessingML document with the following information stored in one of its protection elements:</p> <pre>&lt;... w:cryptProviderType="rsaAES"       w:hash="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre> <p>The cryptProviderType attribute value of rsaAES specifies that the cryptographic provider type must be an Advanced Encryption Standard provider. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_CryptProv simple type (§20.1.2.4).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| cryptProviderTypeExt (Cryptographic Provider Type Extensibility) | <p>Specifies that a cryptographic provider type which was not defined by ISO/IEC 29500 has been used to generate the hash value stored with this document.</p> <p>This value, when present, shall be interpreted based on the value of the cryptProviderTypeExtSource attribute in order to determine the provider type used, which shall be application-defined. [<i>Rationale:</i> This extensibility affords the fact that with exponentially increasing computing power, documents created in the future might need to utilize as yet undefined cryptographic provider types in order to remain secure. <i>end rationale</i>]</p> <p>If this value is present, the cryptProviderType attribute value shall be ignored in favor of the provider type defined by this attribute.</p> <p>[<i>Example:</i> Consider a WordprocessingML document with the following information stored in one of its protection elements:</p> <pre>&lt;... w:cryptProviderTypeExt="00A5691D"       w:cryptProvideTypeExtSource="futureCryptography"       w:hash="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre> <p>The cryptProviderTypeExt attribute value of 00A5691D specifies that the provider type associated with hex code A5691D must be used as defined by the futureCryptography application. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_LongHexNumber simple type (Part 1, §17.18.50).</p> |
| cryptProviderTypeExtSource (Provider Type Extensibility Source)  | <p>Specifies the application which defined the provider type value specified by the cryptProviderTypeExt attribute.</p> <p>[<i>Example:</i> Consider a WordprocessingML document with the following information stored in one of its protection elements:</p> <pre>&lt;... w:cryptProviderTypeExt="00A5691D"       w:cryptProvideTypeExtSource="futureCryptography"       w:hash="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

| Attributes                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                         | <p>The cryptProvideTypeExtSource attribute value of futureCryptography specifies that the provider type used here was published by the futureCryptography application. <i>end example</i></p> <p>The possible values for this attribute are defined by the ST_String simple type (Part 1, §22.9.2.13).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| cryptSpinCount<br>(Iterations to Run Hashing Algorithm) | <p>Specifies the number of times the hashing function shall be iteratively run (runs using each iteration's result plus a 4 byte value (0-based, little endian) containing the number of the iteration as the input for the next iteration) when attempting to compare a user-supplied password with the value stored in the hash attribute. [<i>Rationale</i>: Running the algorithm many times increases the cost of exhaustive search attacks correspondingly. Storing this value allows for the number of iterations to be increased over time to accommodate faster hardware (and hence the ability to run more iterations in less time). <i>end rationale</i>]</p> <p>[<i>Example</i>: Consider a WordprocessingML document with the following information stored in one of its protection elements:</p> <pre>&lt;... w:cryptSpinCount="100000"       w:hash="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre> <p>The cryptSpinCount attribute value of 100000 specifies that the hashing function must be run one hundred thousand times to generate a hash value for comparison with the hash attribute. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_DecimalNumber simple type (Part 1, §17.18.10).</p> |
| hash (Password Hash)                                    | <p>Specifies the hash value for the password stored with this document. This value shall be compared with the resulting hash value after hashing the user-supplied password using the algorithm specified by the preceding attributes and parent XML element, and if the two values match, the protection shall no longer be enforced.</p> <p>If this value is omitted, then no password shall be associated with the protection, and it can be turned off without supplying any password.</p> <p>[<i>Example</i>: Consider a WordprocessingML document with the following information stored in one of its protection elements:</p> <pre>&lt;... w:cryptAlgorithmClass="hash"       w:cryptAlgorithmType="typeAny"       w:cryptAlgorithmSid="1"       w:hash="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre> <p>The hash attribute value of 9oN7nWkCAyEZib1RomSJTjmPpCY= specifies that the user-supplied password must be hashed using the pre-processing defined by the parent</p>                                                                                                                                                                                                                                                                    |

| Attributes                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                   | <p>element (if any) followed by the SHA-1 algorithm (specified via the cryptAlgorithmSid attribute value of 1) and that the resulting hash value must be 9oN7nWkCAyEZib1RomSJTjmPpCY= for the protection to be disabled. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema base64Binary datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| salt (Salt for Password Verifier) | <p>Specifies the salt which was prepended to the user-supplied password before it was hashed using the hashing algorithm defined by the preceding attribute values to generate the hash attribute, and which shall also be prepended to the user-supplied password before attempting to generate a hash value for comparison. A <i>salt</i> is a random string which is added to a user-supplied password before it is hashed in order to prevent a malicious party from pre-calculating all possible password/hash combinations and simply using those precalculated values (often referred to as a "dictionary attack").</p> <p>If this attribute is omitted, then no salt shall be prepended to the user-supplied password before it is hashed for comparison with the stored hash value.</p> <p>[<i>Example:</i> Consider a WordprocessingML document with the following information stored in one of its protection elements:</p> <pre>&lt;... w:salt="ZUdHa+D8F/OAKP3I7ssUnQ=="       w:hash="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre> <p>The salt attribute value of ZUdHa+D8F/OAKP3I7ssUnQ== specifies that the user-supplied password must have this value prepended before it is run through the specified hashing algorithm to generate a resulting hash value for comparison. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema base64Binary datatype.</p> |

#### 14.7.2.4 Additional attribute for stylePaneFormatFilter element (Part 1, §17.15.1.85)

The following additional attributes can be specified for a document of a transitional conformance class:

| Attributes                                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |             |        |                                                                                                          |        |                                                                                                               |        |                                                                                      |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|--------|----------------------------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------|
| val (Bitmask of Suggested Filtering Options) | <p>Specifies a bitmask of the following filtering options:</p> <table> <tr> <th>Value</th><th>Description</th></tr> <tr> <td>0x0001</td><td>Specifies that all styles present in the styles part should be displayed in the list of document styles.</td></tr> <tr> <td>0x0002</td><td>Specifies that only styles with the customStyle attribute should be displayed in the list of document styles.</td></tr> <tr> <td>0x0004</td><td>Specifies that all latent styles should be displayed in the list of document styles.</td></tr> </table> | Value | Description | 0x0001 | Specifies that all styles present in the styles part should be displayed in the list of document styles. | 0x0002 | Specifies that only styles with the customStyle attribute should be displayed in the list of document styles. | 0x0004 | Specifies that all latent styles should be displayed in the list of document styles. |
| Value                                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |             |        |                                                                                                          |        |                                                                                                               |        |                                                                                      |
| 0x0001                                       | Specifies that all styles present in the styles part should be displayed in the list of document styles.                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |             |        |                                                                                                          |        |                                                                                                               |        |                                                                                      |
| 0x0002                                       | Specifies that only styles with the customStyle attribute should be displayed in the list of document styles.                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |             |        |                                                                                                          |        |                                                                                                               |        |                                                                                      |
| 0x0004                                       | Specifies that all latent styles should be displayed in the list of document styles.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |             |        |                                                                                                          |        |                                                                                                               |        |                                                                                      |



| Attributes                                                                                                                                                                                                                                                                                                                                     | Description                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                | 0x0008 Specifies that only styles used in the document should be displayed in the list of document styles.                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                | 0x0010 Undefined. Shall not be used.                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                | 0x0020 Specifies that heading styles (styles with a styleId of Heading1 to Heading9) should be displayed in the list of document styles when the previous style is used in the document and/or is present in the styles part. |
|                                                                                                                                                                                                                                                                                                                                                | 0x0040 Specifies that numbering styles should be displayed in the list of document styles.                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                | 0x0080 Specifies that table styles should be displayed in the list of document styles.                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                | 0x0100 Specifies that all unique forms of run-level direct formatting should be displayed in the list of document styles as though they were each a unique style.                                                             |
|                                                                                                                                                                                                                                                                                                                                                | 0x0200 Specifies that all unique forms of paragraph-level direct formatting should be displayed in the list of document styles as though they were each a unique style.                                                       |
|                                                                                                                                                                                                                                                                                                                                                | 0x0400 Specifies that all unique forms of direct formatting of numbering data should be displayed in the list of document styles as though they were each a unique style.                                                     |
|                                                                                                                                                                                                                                                                                                                                                | 0x0800 Specifies that all unique forms of direct formatting of tables should be displayed in the list of document styles as though they were each a unique style.                                                             |
|                                                                                                                                                                                                                                                                                                                                                | 0x1000 Specifies that a style should be present which removes all formatting and styles from text.                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                | 0x2000 Specifies that heading styles with a styleId of Heading1 to Heading3 should always be displayed in the list of document styles.                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                | 0x4000 Specifies that styles should only be shown the semiHidden element (Part 1, §17.7.4.16) is false and the hidden element (Part 1, §17.7.4.4) is false.                                                                   |
|                                                                                                                                                                                                                                                                                                                                                | 0x8000 Specifies that primary names for styles should not be shown if an alternate name using the name element (Part 1, §17.7.4.9) exists.                                                                                    |
| Any other value                                                                                                                                                                                                                                                                                                                                | Undefined. Shall not be used.                                                                                                                                                                                                 |
| <p>[Example: Consider a document with the following value in its document settings:</p> <pre>&lt;w:stylePaneFormatFilter w:val="2002" /&gt;</pre> <p>The val attribute specifies two suggested filter options for the list of document styles:</p> <ul style="list-style-type: none"> <li>Only custom styles should be shown (0002)</li> </ul> |                                                                                                                                                                                                                               |

| Attributes | Description                                                                                                                                                                                                                                                                                          |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <ul style="list-style-type: none"> <li>Heading styles with a styleId of Heading1 to Heading3 should always be displayed in the list (2000)</li> </ul> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ShortHexNumber simple type (Part 1, §17.18.79).</p> |

#### 14.7.2.5 Additional attributes for writeProtection element (Part 1, §17.15.1.93)

The following additional attributes can be specified for a document of a transitional conformance class:

| Attributes                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| algIdExt<br>(Cryptographic Algorithm Extensibility) | <p>Specifies that a cryptographic algorithm which was not defined by ISO/IEC 29500 has been used to generate the hash value stored with this document.</p> <p>This value, when present, shall be interpreted based on the value of the algIdExtSource attribute in order to determine the algorithm used, which shall be application-defined.<br/>[<i>Rationale:</i> This extensibility affords the fact that with exponentially increasing computing power, documents created in the future might need to utilize as yet undefined hashing algorithms in order to remain secure. <i>end rationale]</i></p> <p>If this value is present, the cryptAlgorithmClass, cryptAlgorithmType, and cryptAlgorithmSid attribute values shall be ignored in favor of the algorithm defined by this attribute.</p> <p>[<i>Example:</i> Consider a WordprocessingML document with the following information stored in one of its protection elements:</p> <pre>&lt;... w:algIdExt="0000000A"       w:algIdExtSource="futureCryptography"       w:hash="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre> <p>The algIdExt attribute value of 0000000A specifies that the algorithm with hex code A must be used as defined by the futureCryptography application. <i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_LongHexNumber simple type (Part 1, §17.18.50).</p> |
| algIdExtSource<br>(Algorithm Extensibility Source)  | <p>Specifies the application which defined the algorithm value specified by the algIdExt attribute.</p> <p>[<i>Example:</i> Consider a WordprocessingML document with the following information stored in one of its protection elements:</p> <pre>&lt;... w:algIdExt="0000000A"       w:algIdExtSource="futureCryptography"</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| Attributes                                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |
|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|---|-----|---|-----|---|-----|---|-------|---|-----|---|--------|---|------------|---|-------------------------------|---|------|----|-------------------------------|----|-------------------------------|
|                                                                         | <p><code>w:hash="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</code></p> <p>The <code>algIdExtSource</code> attribute value of <code>futureCryptography</code> specifies that the algorithm used here was published by the <code>futureCryptography</code> application. <i>end example</i></p> <p>The possible values for this attribute are defined by the <code>ST_String</code> simple type (Part 1, §22.9.2.13).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |
| <p><code>cryptAlgorithmClass</code> (Cryptographic Algorithm Class)</p> | <p>Specifies the class of cryptographic algorithm used by this protection. [<i>Note</i>: The initial version of ISO/IEC 29500 only supports a single version - hash - but future versions can expand this as necessary. <i>end note</i>]</p> <p>[<i>Example</i>: Consider a <code>WordprocessingML</code> document with the following information stored in one of its protection elements:</p> <pre>&lt;... w:cryptAlgorithmClass="hash"       w:cryptAlgorithmType="typeAny"       w:cryptAlgorithmSid="1"       w:hash="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre> <p>The <code>cryptAlgorithmClass</code> attribute value of <code>hash</code> specifies that the algorithm used for the password is a hashing algorithm. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the <code>ST_AlgClass</code> simple type (§20.1.2.1).</p>         |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |
| <p><code>cryptAlgorithmSid</code> (Cryptographic Hashing Algorithm)</p> | <p>Specifies the specific cryptographic hashing algorithm which shall be used along with the salt attribute and user-supplied password in order to compute a hash value for comparison.</p> <p>The possible values for this attribute shall be interpreted as follows:</p> <table border="1" data-bbox="415 1297 1351 1879"> <thead> <tr> <th>Value</th><th>Algorithm</th></tr> </thead> <tbody> <tr><td>1</td><td>MD2</td></tr> <tr><td>2</td><td>MD4</td></tr> <tr><td>3</td><td>MD5</td></tr> <tr><td>4</td><td>SHA-1</td></tr> <tr><td>5</td><td>MAC</td></tr> <tr><td>6</td><td>RIPEMD</td></tr> <tr><td>7</td><td>RIPEMD-160</td></tr> <tr><td>8</td><td>Undefined. Shall not be used.</td></tr> <tr><td>9</td><td>HMAC</td></tr> <tr><td>10</td><td>Undefined. Shall not be used.</td></tr> <tr><td>11</td><td>Undefined. Shall not be used.</td></tr> </tbody> </table> | Value | Algorithm | 1 | MD2 | 2 | MD4 | 3 | MD5 | 4 | SHA-1 | 5 | MAC | 6 | RIPEMD | 7 | RIPEMD-160 | 8 | Undefined. Shall not be used. | 9 | HMAC | 10 | Undefined. Shall not be used. | 11 | Undefined. Shall not be used. |
| Value                                                                   | Algorithm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |
| 1                                                                       | MD2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |
| 2                                                                       | MD4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |
| 3                                                                       | MD5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |
| 4                                                                       | SHA-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |
| 5                                                                       | MAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |
| 6                                                                       | RIPEMD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |
| 7                                                                       | RIPEMD-160                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |
| 8                                                                       | Undefined. Shall not be used.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |
| 9                                                                       | HMAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |
| 10                                                                      | Undefined. Shall not be used.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |
| 11                                                                      | Undefined. Shall not be used.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |   |      |    |                               |    |                               |

| Attributes                                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |         |    |         |    |         |                 |                               |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------|----|---------|----|---------|-----------------|-------------------------------|
|                                                   | <table border="1" data-bbox="418 245 1349 478"> <tr> <td>12</td><td>SHA-256</td></tr> <tr> <td>13</td><td>SHA-384</td></tr> <tr> <td>14</td><td>SHA-512</td></tr> <tr> <td>Any other value</td><td>Undefined. Shall not be used.</td></tr> </table> <p data-bbox="418 514 1398 579">[Example: Consider a WordprocessingML document with the following information stored in one of its protection elements:</p> <pre data-bbox="456 621 964 751">&lt;... w:cryptAlgorithmClass="hash" w:cryptAlgorithmType="typeAny" w:cryptAlgorithmSid="4" w:hash="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre> <p data-bbox="418 793 1442 858">The cryptAlgorithmSid attribute value of 4 specifies that the SHA-1 hashing algorithm must be used to generate a hash from the user-defined password. <i>end example</i>]</p> <p data-bbox="418 900 1471 966">The possible values for this attribute are defined by the ST_DecimalNumber simple type (Part 1, §17.18.10).</p> | 12 | SHA-256 | 13 | SHA-384 | 14 | SHA-512 | Any other value | Undefined. Shall not be used. |
| 12                                                | SHA-256                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |         |    |         |    |         |                 |                               |
| 13                                                | SHA-384                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |         |    |         |    |         |                 |                               |
| 14                                                | SHA-512                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |         |    |         |    |         |                 |                               |
| Any other value                                   | Undefined. Shall not be used.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |         |    |         |    |         |                 |                               |
| cryptAlgorithmType (Cryptographic Algorithm Type) | <p data-bbox="418 982 1442 1089">Specifies the type of cryptographic algorithm used by this protection. [Note: The initial version of ISO/IEC 29500 only supports a single algorithm type - typeAny - but future versions can expand this as necessary. <i>end note</i>]</p> <p data-bbox="418 1129 1398 1194">[Example: Consider a WordprocessingML document with the following information stored in one of its protection elements:</p> <pre data-bbox="456 1236 1127 1367">&lt;... w:cryptAlgorithmClass="hash" w:cryptAlgorithmType="typeAny" w:cryptAlgorithmSid="1" w:hash="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre> <p data-bbox="418 1409 1471 1474">The cryptAlgorithmType attribute value of typeAny specifies that any type of algorithm might have been used for the password. <i>end example</i>]</p> <p data-bbox="418 1516 1369 1581">The possible values for this attribute are defined by the ST_AlgType simple type (§20.1.2.2).</p>     |    |         |    |         |    |         |                 |                               |
| cryptProvider (Cryptographic Provider)            | <p data-bbox="418 1593 1479 1734">Specifies the cryptographic provider which was used to generate the hash value stored in this document. If the user provided a cryptographic provider which was not the system's built-in provider, then that provider shall be stored here so it can subsequently be used if available.</p> <p data-bbox="418 1776 1479 1841">If this attribute is omitted, then the built-in cryptographic provider on the system shall be used.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |         |    |         |    |         |                 |                               |

| Attributes                                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                            | <p>[<i>Example:</i> Consider a WordprocessingML document with the following information stored in one of its protection elements:</p> <pre>&lt;... w:cryptProvider="Krista'sProvider"       w:hash="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre> <p>The cryptProvider attribute value of Krista'sProvider specifies that the cryptographic provider with name "Krista's Provider" must be used if available. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_String simple type (Part 1, §22.9.2.13).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| cryptProviderType<br>(Cryptographic<br>Provider Type)                      | <p>Specifies the type of cryptographic provider to be used.</p> <p>[<i>Example:</i> Consider a WordprocessingML document with the following information stored in one of its protection elements:</p> <pre>&lt;... w:cryptProviderType="rsaAES"       w:hash="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre> <p>The cryptProviderType attribute value of rsaAES specifies that the cryptographic provider type must be an Advanced Encryption Standard provider. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_CryptProv simple type (§20.1.2.4).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| cryptProviderType<br>Ext (Cryptographic<br>Provider Type<br>Extensibility) | <p>Specifies that a cryptographic provider type which was not defined by ISO/IEC 29500 has been used to generate the hash value stored with this document.</p> <p>This value, when present, shall be interpreted based on the value of the cryptProviderTypeExtSource attribute in order to determine the provider type used, which shall be application-defined. [<i>Rationale:</i> This extensibility affords the fact that with exponentially increasing computing power, documents created in the future might need to utilize as yet undefined cryptographic provider types in order to remain secure. <i>end rationale</i>]</p> <p>If this value is present, the cryptProviderType attribute value shall be ignored in favor of the provider type defined by this attribute.</p> <p>[<i>Example:</i> Consider a WordprocessingML document with the following information stored in one of its protection elements:</p> <pre>&lt;... w:cryptProviderTypeExt="00A5691D"       w:cryptProvideTypeExtSource="futureCryptography"       w:hash="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre> <p>The cryptProviderTypeExt attribute value of 00A5691D specifies that the provider type associated with hex code A5691D must be used as defined by the futureCryptography</p> |

| Attributes                                                             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                        | <p>application. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_LongHexNumber simple type (Part 1, §17.18.50).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p>cryptProviderTypeExtSource (Provider Type Extensibility Source)</p> | <p>Specifies the application which defined the provider type value specified by the cryptProviderTypeExt attribute.</p> <p>[<i>Example</i>: Consider a WordprocessingML document with the following information stored in one of its protection elements:</p> <pre>&lt;... w:cryptProviderTypeExt="00A5691D"       w:cryptProvideTypeExtSource="futureCryptography"       w:hash="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre> <p>The cryptProvideTypeExtSource attribute value of futureCryptography specifies that the provider type used here was published by the futureCryptography application. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_String simple type (Part 1, §22.9.2.13).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <p>cryptSpinCount (Iterations to Run Hashing Algorithm)</p>            | <p>Specifies the number of times the hashing function shall be iteratively run (runs using each iteration's result plus a 4 byte value (0-based, little endian) containing the number of the iteration as the input for the next iteration) when attempting to compare a user-supplied password with the value stored in the hash attribute. [<i>Rationale</i>: Running the algorithm many times increases the cost of exhaustive search attacks correspondingly. Storing this value allows for the number of iterations to be increased over time to accommodate faster hardware (and hence the ability to run more iterations in less time). <i>end rationale</i>]</p> <p>[<i>Example</i>: Consider a WordprocessingML document with the following information stored in one of its protection elements:</p> <pre>&lt;... w:cryptSpinCount="100000"       w:hash="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre> <p>The cryptSpinCount attribute value of 100000 specifies that the hashing function must be run one hundred thousand times to generate a hash value for comparison with the hash attribute. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_DecimalNumber simple type (Part 1, §17.18.10).</p> |
| <p>hash (Password Hash)</p>                                            | <p>Specifies the hash value for the password stored with this document. This value shall be compared with the resulting hash value after hashing the user-supplied password using the algorithm specified by the preceding attributes and parent XML element, and if the two values match, the protection shall no longer be enforced.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

| Attributes                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                   | <p>If this value is omitted, then no password shall be associated with the protection, and it can be turned off without supplying any password.</p> <p>[<i>Example</i>: Consider a WordprocessingML document with the following information stored in one of its protection elements:</p> <pre>&lt;... w:cryptAlgorithmClass="hash"       w:cryptAlgorithmType="typeAny"       w:cryptAlgorithmSid="1"       w:hash="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre> <p>The hash attribute value of 9oN7nWkCAyEZib1RomSJTjmPpCY= specifies that the user-supplied password must be hashed using the pre-processing defined by the parent element (if any) followed by the SHA-1 algorithm (specified via the cryptAlgorithmSid attribute value of 1) and that the resulting hash value must be 9oN7nWkCAyEZib1RomSJTjmPpCY= for the protection to be disabled. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema base64Binary datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| salt (Salt for Password Verifier) | <p>Specifies the salt which was prepended to the user-supplied password before it was hashed using the hashing algorithm defined by the preceding attribute values to generate the hash attribute, and which shall also be prepended to the user-supplied password before attempting to generate a hash value for comparison. A <i>salt</i> is a random string which is added to a user-supplied password before it is hashed in order to prevent a malicious party from pre-calculating all possible password/hash combinations and simply using those precalculated values (often referred to as a "dictionary attack").</p> <p>If this attribute is omitted, then no salt shall be prepended to the user-supplied password before it is hashed for comparison with the stored hash value.</p> <p>[<i>Example</i>: Consider a WordprocessingML document with the following information stored in one of its protection elements:</p> <pre>&lt;... w:salt="ZUdHa+D8F/OAKP3I7ssUnQ=="       w:hash="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre> <p>The salt attribute value of ZUdHa+D8F/OAKP3I7ssUnQ== specifies that the user-supplied password must have this value prepended before it is run through the specified hashing algorithm to generate a resulting hash value for comparison. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema base64Binary datatype.</p> |

### 14.7.3 Compatibility Settings

The last group of settings stored in WordprocessingML is compatibility settings. *Compatibility Settings* are optional settings used to preserve visual fidelity of documents created in earlier word processing applications. Some of these settings provide affordance for specific behaviors, described in detail below; and others simply instruct applications to mimic the behavior of an existing word processing application.

If compatibility settings are needed, they are stored in the Document Settings part.

It is important to note that all compatibility settings are optional in nature - applications can freely ignore all behaviors described within this section and these settings should not be added unless compatibility is specifically needed in one or more cases. The compatibility settings are provided for backward compatibility with documents created in legacy applications. As such, a number of the settings reference specific applications and specific versions of those applications. This is solely for backward compatibility reasons, and any of those settings are not intended for use by typical applications.

[*Note:* These settings can also be expressed using the generic compatSetting element defined in ISO/IEC 29500-1. *end note*]

[*Example:* Consider the following WordprocessingML fragment for the compatibility settings in a WordprocessingML document:

```
<w:settings>
...
<w:compat>
  <w:noTabHangInd />
</w:compat>
</w:settings>
```

The compat element contains all of the document settings for this document. In this case, the single setting applied is the suppression of a tab stop when using a hanging indent using the noTabHangInd element (§14.7.3.31). *end example*

#### 14.7.3.1 alignTablesRowByRow (Align Table Rows Independently)

This element specifies whether applications shall align each row within a table independently based on the alignment setting of the jc element (Part 1, §17.4.28) when displaying the contents of a table in a WordprocessingML document.

When the justification of a table using the jc element is typically applied, that alignment is applied to the contents of the table (the table is centered, left justified, or right-aligned), and then individual rows are laid out based on the resulting table's position. This element, when present with a val attribute value of true (or equivalent), specifies that each table row shall be independently aligned based on the table alignment setting, ignoring the placement of all other rows.



[Example: Consider a WordprocessingML document with a single centered table, whose second row is defined such that one-half of an inch is left before the row begins, as follows:

```
<w:tbl>
  <w:tblPr>
    <w:jc w:val="center" />
  </w:tblPr>
  <w:tr>
    ...
  </w:tr>
  <w:tr>
    <w:trPr>
      <w:gridBefore w:val="1" />
      <w:wBefore w:w="720" w:type="dxa" />
    </w:trPr>
    ...
  </w:tr>
</w:tbl>
```

The default presentation would have the entire table centered, then the second row indented beyond that by 720 points:

|  |  |  |
|--|--|--|
|  |  |  |
|  |  |  |
|  |  |  |

However, if this compatibility setting is turned on:

```
<w:compat>
  <w:alignTablesRowByRow />
</w:compat>
```

Then that second row would instead be centered on the page independently of the other table rows, resulting in the following output:

|  |  |  |
|--|--|--|
|  |  |  |
|  |  |  |
|  |  |  |

In this case, the `wBefore` element's value is ignored, since the row was centered on the line as a row, and there is no table to be indented relative to. *end example*]

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

#### 14.7.3.2 `allowSpaceOfSameStyleInTable` (Allow Contextual Spacing of Paragraphs in Tables)

This element specifies whether the suppression of additional space (contextual spacing) defined using the `contextualSpacing` element (Part 1, §17.3.1.9) shall be applied to paragraphs contained within tables.

Typically, the rules for the removal of additional paragraph spacing via the `contextualSpacing` element are applied to all paragraphs in a WordprocessingML document. This element, when present with a `val` attribute value of `true` (or equivalent), specifies that this setting shall always be ignored for paragraphs in table cells (and additional spacing shall be allowed).

[*Example*: Consider a WordprocessingML document with a default paragraph style with additional spacing after and contextual spacing set, as follows:

```
<w:style w:name="Normal" w:default="1">
...
  <w:pPr>
    <w:spacing w:after="200" />
    <w:contextualSpacing />
  </w:pPr>
</w:style>
```

The default presentation would have the spacing suppressed between all paragraphs, since they are all of the default paragraph style defined above (contextual spacing applies):

On the Insert tab, the galleries include items that are designed to coordinate with the overall look of your document. You can use these galleries to insert tables, headers, footers, lists, cover pages, and other document building blocks. When you create pictures, charts, or diagrams, they also coordinate with your current document look.

On the Insert tab, the galleries include items that are designed to coordinate with the overall look of your document. You can use these galleries to insert tables, headers, footers, lists, cover pages, and other document building blocks. When you create pictures, charts, or diagrams, they also coordinate with your current document look.

You can easily change the formatting of selected text in the document text by choosing a look for the selected text from the Quick Styles gallery on the Home tab. You can also format text directly by using the other controls on the Home tab. Most controls offer a choice of using the look from the current theme or using a format that you specify directly.

On the Insert tab, the galleries include items that are designed to coordinate with the overall look of your document. You can use these galleries to insert tables, headers, footers, lists, cover pages, and other document building blocks. When you create pictures, charts, or diagrams, they also coordinate with your current document look.

However, if this compatibility setting is turned on:

```
<w:compat>
  <w:allowSpaceOfSameStyleInTable />
</w:compat>
```

Then the paragraphs in the table never have their spacing suppressed, resulting in the following output:

On the Insert tab, the galleries include items that are designed to coordinate with the overall look of your document. You can use these galleries to insert tables, headers, footers, lists, cover pages, and other document building blocks. When you create pictures, charts, or diagrams, they also coordinate with your current document look.

On the Insert tab, the galleries include items that are designed to coordinate with the overall look of your document. You can use these galleries to insert tables, headers, footers, lists, cover pages, and other document building blocks. When you create pictures, charts, or diagrams, they also coordinate with your current document look.

You can easily change the formatting of selected text in the document text by choosing a look for the selected text from the Quick Styles gallery on the Home tab. You can also format text directly by using the other controls on the Home tab. Most controls offer a choice of using the look from the current theme or using a format that you specify directly.

On the Insert tab, the galleries include items that are designed to coordinate with the overall look of your document. You can use these galleries to insert tables, headers, footers, lists, cover pages, and other document building blocks. When you create pictures, charts, or diagrams, they also coordinate with your current document look.

*end example]*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

**14.7.3.3      autofitToFirstFixedWidthCell (Allow Table Columns To Exceed Preferred Widths of Constituent Cells)**

This element specifies that when performing an AutoFit on a table in a WordprocessingML document in order to display it, applications shall alter that logic slightly in order to mimic the behavior of a previous word processing application.

Normally, the AutoFit behavior of a table is as is described in the associated simple type. This element, when present with a val attribute value of true (or equivalent), specifies that this logic shall be changed as follows:

- If the width of a grid column in a table has been set by a preferred table cell width, then that column's width can be enlarged by the content of cells which themselves do not have a preferred width (in contrast, the normal logic never allows the content of cells to override a preferred width on a grid column).

[Example: Consider a WordprocessingML table with only one preferred cell width, a width of 720 points on the second cell in the first column, as follows:

```
<w:tbl>
...
<w:tr>
  <w:tc>
    <w:p/>
  </w:tc>
  <w:tc>
    <w:p/>
  </w:tc>
</w:tr>
<w:tr>
  <w:tc>
    <w:tcPr>
      <w:tcW w:w="720" w:type="dxa" />
    </w:tcPr>
    <w:p/>
  </w:tc>
  <w:tc>
    <w:p/>
```

```

    </w:tc>
  </w:tr>
</w:tbl>

```

The default presentation would have the first column constrained to 720 points by the preferred width of the second cell in the first column:

|                                                                      |  |
|----------------------------------------------------------------------|--|
| This is<br>an<br>example<br>of a cell<br>with<br>lots of<br>content. |  |
|                                                                      |  |

However, if this compatibility setting is turned on:

```

<w:compat>
  <w:autoFitToFirstFixedWidthCell />
</w:compat>

```

Then the column would be resized proportionally based on the content (ignoring the preferred width in that row), resulting in the following output:

|                                                    |  |
|----------------------------------------------------|--|
| This is an example of a cell with lots of content. |  |
|                                                    |  |

*end example]*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

#### 14.7.3.4 autoSpaceLikeWord95 (Incorrectly Adjust Text Spacing for Specific Unicode Ranges)

This element specifies adjustments (detailed below) which should be applied to the spacing between adjoining regions of non-ideographic and ideographic text when the autoSpaceDE (Part 1, §17.3.1.2) and autoSpaceDN (Part 1, §17.3.1.3) elements have a value of true (or equivalent). This algorithm typically results in the following:

- An increase in the inter-character spacing added between non-ideographic and/or number characters and certain full-width characters

- No inter-character spacing between non-ideographic and/or number characters and certain half-width characters

Typically, applications apply additional spacing between ideographic and non-ideographic characters/numeric characters when the autoSpaceDE / autoSpaceDN properties are applied. This element, when present with a val attribute value of true (or equivalent), specifies that applications shall apply the following adjustments to this logic:

- Characters in the following Unicode ranges should be treated as ideographic, even though those characters are full-width forms of non-ideographic text: U+FF10–U+FF19, U+FF21–U+FF3A, and U+FF41–U+FF5A. [*Note: This results in the unnecessary addition of space. end note*]
- Characters in the following Unicode ranges should be treated as non-ideographic, even though those characters are ideographic: U+FF66–U+FF9F. [*Note: This results in the omission of the intended additional space. end note*]

[*Example: Consider a WordprocessingML document with two paragraphs containing a mix of East Asian and Latin characters:*

```
<w:p>
  <w:r>
    <w:t>ab</w:t>
  </w:r>
  <w:r>
    <w:t>ア</w:t>
  </w:r>
  <w:r>
    <w:t>ア</w:t>
  </w:r>
  <w:r>
    <w:t>cd</w:t>
  </w:r>
</w:p>
<w:p>
  <w:r>
    <w:t>ab</w:t>
  </w:r>
  <w:r>
    <w:t> 2 </w:t>
  </w:r>
  <w:r>
    <w:t> 2 </w:t>
  </w:r>
  <w:r>
    <w:t>cd</w:t>
```

```
</w:r>
</w:p>
```

The first paragraph contains characters with Unicode value U+FF66 (𐤆). The second paragraph contains characters with Unicode value U+FF12 ( 2 ). If autoSpaceDE is true, spacing is added in the first paragraph (between the ideographs and the non-ideographic characters), but not in the second (all four characters are not ideographs):

```
ab 𐤆𐤆 cd
ab 2 2 cd
```

If this compatibility setting is turned on:

```
<w:compat>
  <w:autoSpaceLikeWord95 />
</w:compat>
```

Then, although it appears incorrect, applications should not add space in the first paragraph and should apply it in the second:

```
ab𐤆𐤆cd
ab 2 2 cd
```

*end example]*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

#### 14.7.3.5 **cachedColBalance** (Use Cached Paragraph Information for Column Balancing)

This element specifies whether applications shall incorrectly calculate the height of a paragraph for the purposes of column balancing when rendering WordprocessingML documents. Specifically, this element specifies that when a paragraph's lines have differing heights, an application shall treat this paragraph as though it had only one line equaling the full paragraph height, regardless of the actual number of lines in the paragraph.

[*Guidance:* It is recommended that applications not intentionally replicate this behavior; it is maintained only for compatibility with existing documents from a legacy application. *end guidance*]

Typically, lines are correctly measured for their height when balancing columns as part of a WordprocessingML document. This element, when present with a `val` attribute value of `true` (or equivalent), specifies that applications shall perform the incorrect calculation in the conditions described above.

[*Example:* Consider a WordprocessingML document with two columns of text which shall be balanced.

If this compatibility setting is turned on:

```
<w:compat>
  <w:cachedColBalance />
</w:compat>
```

Then applications should perform the calculation described above to balance the columns, as needed. *end example*]

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

**14.7.3.6 convMailMergeEsc (Treat Backslash Quotation Delimiter as Two Quotation Marks)**

This element specifies whether applications should perform a conversion of the contents of a mail merge data source when reading those contents in order to perform a mail merge operation with their contents.

Typically, the contents of a mail merge data source are read in exactly as specified when performing a mail merge with the contents of a data source. This element, when present with a `val` attribute value of `true` (or equivalent), specifies that applications shall interpret delimiters composed of a backslash and quotation mark (`\"`) as two quotation marks (`""`), within external data sources to be connected to via a mail merge.

[*Example:* Consider a WordprocessingML document with the following content in its data source:

This is a \"

The default presentation would have the resulting merged data read in just as it appears:

This is a \"

However, if this compatibility setting is turned on:

```
<w:compat>
  <w:convMailMergeEsc />
</w:compat>
```

Then instances of a backslash and quotation mark would be converted, resulting in the following output:

This is a ""



*end example]*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

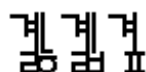
This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

#### 14.7.3.7 displayHangulFixedWidth (Always Use Fixed Width for Hangul Characters)

This element specifies whether applications should assume that all characters in the Hangul Syllables Unicode sub range (character values between 0xAC00 and 0xD7FF) are of a single fixed width or shall use the characters widths defined by the font in use (typical for a proportional width font).

Typically, applications shall retrieve the character width for any character in a document from the associated font, allowing each character to be of its own width (a proportional width character). This element, when present with a val attribute value of true (or equivalent), specifies that applications shall instead assume a single fixed width for all characters in the Hangul Syllables sub range, by reading the width of Unicode character 0x4E00 from the associated font and using that width for all Hangul characters (or, if that character is not present, the next available character in the font).

[Example: Consider a WordprocessingML document with three Hangul characters:



The default presentation would have each of those characters using the widths defined by the font (the highlighting indicates that each character has its own width):



However, if this compatibility setting is turned on:

```
<w:compat>
  <w:displayHangulFixedWidth />
</w:compat>
```

Then all three characters are forced to the fixed width of character 0x4E00 from the font (or, in this case, the next available character), resulting in the characters in the font being forced to that fixed width, which results in the following output:



Notice from the highlighting that the characters have been compressed to the width of the single character and displayed at that fixed width. *end example*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element’s content model is defined by the common boolean property definition in Part 1, §17.17.4.

14.7.3.8 doNotAutofitConstrainedTables (Do Not AutoFit Tables To Fit Next To Wrapped Objects)

This element specifies whether applications shall allow tables to be resized to the remaining available line width when they are using the AutoFit algorithm and part of that line is filled by a shape with a wrapping type with a value of square or tight.

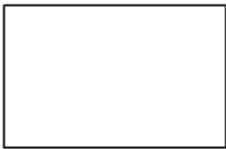
Typically, a table which is AutoFit and has a preferred width shall have its width reduced in order to allow a floating shape to wrap around its contents within the document, as that shape simply reduces the width of the line and the AutoFit algorithm applies to the remaining line width. This element, when present with a val attribute value of true (or equivalent), specifies that tables shall never have any preferred width overridden to allow them to wrap around that floating object, and shall instead be pushed to the next full width line in the document to be displayed.

[Example: Consider a WordprocessingML document with a floating shape centered in the document, followed by a table with preferred cell widths of 2.22", as follows:

This is some text.

This is some text.

|  |  |  |
|--|--|--|
|  |  |  |
|  |  |  |
|  |  |  |



This is some text.

The default presentation of this document overrides the preferred cell widths to force the table to fit on the line next to the floating shape with tight wrapping.

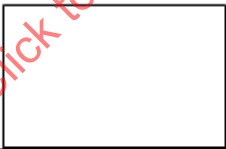
However, if this compatibility setting is turned on:

```
<w:compat>
  <w:doNotAutofitConstrainedTables />
</w:compat>
```

Then that table is not resized, so it cannot fit and must be pushed to the next full width line, resulting in the following output:

This is some text.

This is some text.



|  |  |  |
|--|--|--|
|  |  |  |
|  |  |  |
|  |  |  |

This is some text.

*end example*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element’s content model is defined by the common boolean property definition in Part 1, §17.17.4.

### 14.7.3.9 doNotBreakConstrainedForcedTable (Don't Break Table Rows Around Floating Tables)

This element specifies whether applications shall allow a table row to be split in two when its contents are displayed under the following circumstances:

- The table row exceeds one page in height (it shall be split into two pages)
- The table row would need to be split in order to accommodate a floating table also on the page (tables which have been set to floating using the tblpPr element (Part 1, §17.4.58))

Typically, assuming the cantSplit property (Part 1, §17.4.6) is not set, a table row which cannot fit on one single page shall be split as needed around any floating table on a page, in order to allow its contents to be fully displayed across two or more pages. This element, when present with a val attribute value of true (or equivalent), specifies that table rows which exceed one page in height shall never be split around floating tables in the document, and shall instead be displayed on the first page below the floating table, even if that means that part of the table row is clipped by the edge of the page.

[Example: Consider a WordprocessingML document with a long single table row which must be split across two separate pages in the document, in order to accommodate a floating table anchored in the footer, as follows:

The diagram illustrates a table row that is split across two pages. Page [1] shows the first part of the table row, which is a single row with four cells. The first cell contains the text 'This is example text.' repeated 20 times. The other three cells are empty. Page [2] shows the second part of the table row, which is a single row with four cells. The first cell contains the text 'This is example text.' repeated 5 times. The other three cells are empty. A floating table is shown in the footer of page [2].

The default presentation of this document forces that row to be split as needed around that floating table.

However, if this compatibility setting is turned on:

```
<w:compat>
  <w:doNotBreakConstrainedForcedTable />
</w:compat>
```

Then that table row is never split around the floating table, so it is always placed below that floating table on the page, and allowed to flow off the page as needed, resulting in the following output:

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--|--|--|--|-----------------------|--|--|--|--|-----------------------|--|--|--|--|-----------------------|--|--|--|--|-----------------------|--|--|--|--|-----------------------|--|--|--|--|------------------------------------------------------------------------------|
| [1]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | [2]                   |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                                                                              |
| <div>This is a single table cell in the footer</div> <table><tr><td>This is example text.</td><td></td><td></td><td></td><td></td></tr><tr><td>This is example text.</td><td></td><td></td><td></td><td></td></tr><tr><td>This is example text.</td><td></td><td></td><td></td><td></td></tr><tr><td>This is example text.</td><td></td><td></td><td></td><td></td></tr><tr><td>This is example text.</td><td></td><td></td><td></td><td></td></tr><tr><td>This is example text.</td><td></td><td></td><td></td><td></td></tr></table> | This is example text. |  |  |  |  | This is example text. |  |  |  |  | This is example text. |  |  |  |  | This is example text. |  |  |  |  | This is example text. |  |  |  |  | This is example text. |  |  |  |  | <div>This is a single table cell in the footer</div> <div>29500-4:2017</div> |
| This is example text.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                                                                              |
| This is example text.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                                                                              |
| This is example text.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                                                                              |
| This is example text.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                                                                              |
| This is example text.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                                                                              |
| This is example text.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                       |  |  |  |  |                                                                              |

This example, while extreme, shows how the row is placed below the floating table, rather than breaking around it. *end example*]

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

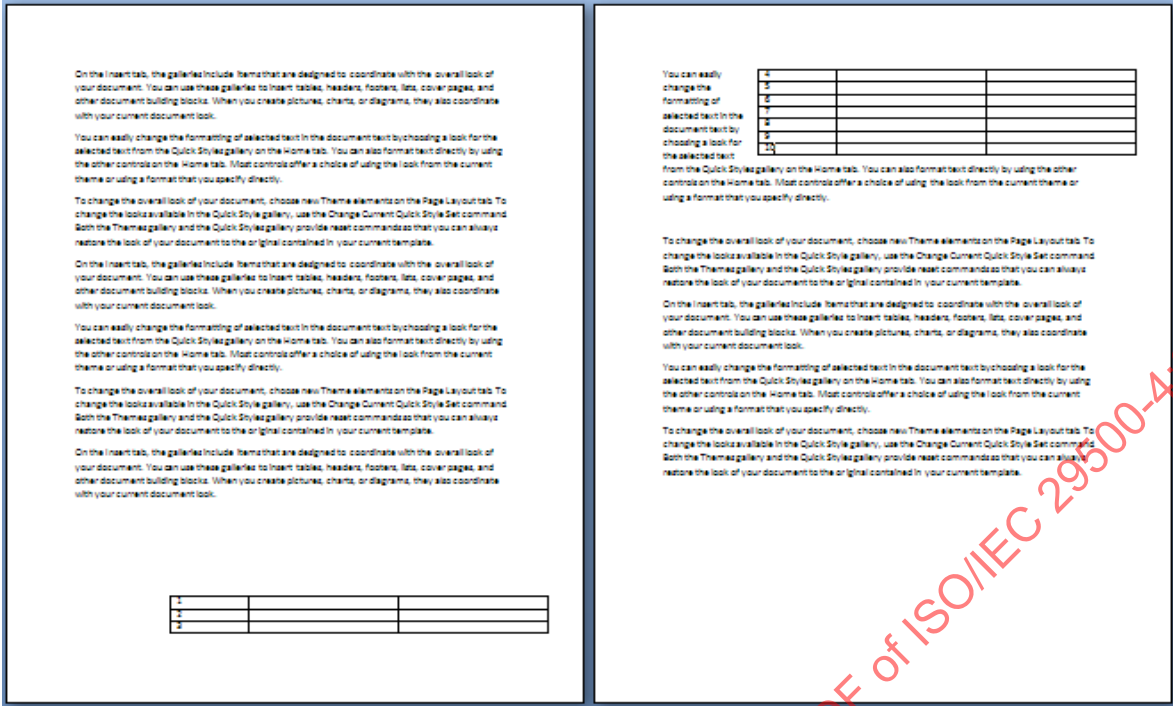
This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

#### 14.7.3.10 doNotBreakWrappedTables (Do Not Allow Floating Tables To Break Across Pages)

This element specifies whether applications shall allow tables which have been set to floating using the tblpPr element (Part 1, §17.4.58) shall be allowed to break across multiple pages when needed.

Typically, a table whose contents cannot all be displayed on one page is broken as needed across multiple pages in order to preserve the location of the table (just as a paragraph of multiple lines is broken across pages as needed). This element, when present with a val attribute value of true (or equivalent), specifies that floating tables shall never be broken across pages, and shall instead be put on the first page by adjusting the starting position of the table as needed to fit on that single page.

[Example: Consider a WordprocessingML document with a floating table positioned at the bottom of a page , as follows:



The default presentation of this document results in that table being broken across two pages of content.

However, if this compatibility setting is turned on:

```
<w:compat>
  <w:doNotBreakWrappedTables />
</w:compat>
```

Then that table is not broken across the page boundary, so it must be moved further up on the first page to accommodate its entire size, resulting in the following output:

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

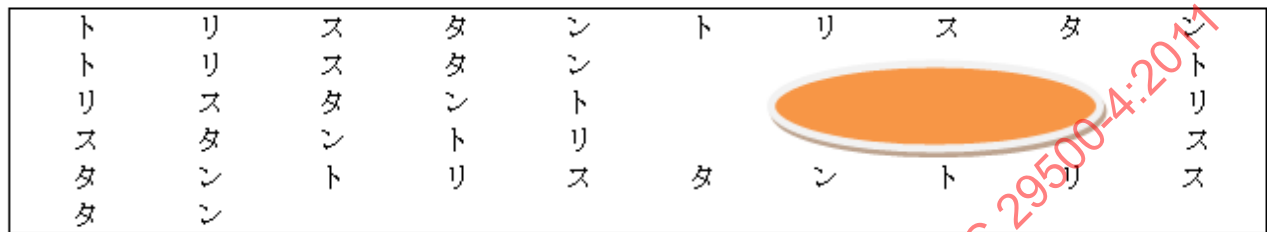
#### 14.7.3.11 doNotSnapToGridInCell (Do Not Snap to Document Grid in Table Cells with Objects)

Typically, if a floating object is present in a table cell, then that setting shall have no impact on whether East Asian text in that cell is snapped to the document grid (as text is always snapped to the grid). This element, when present with a `val` attribute value of `true` (or equivalent), specifies that whenever a floating object is present in a table cell, that the cell's contents shall not be snapped to the document grid.

©ISO/IEC 2011 – All rights reserved

```
<w:sectPr>
  <w:docGrid w:type="snapToChars" w:charSpace="146636" />
</w:sectPr>
```

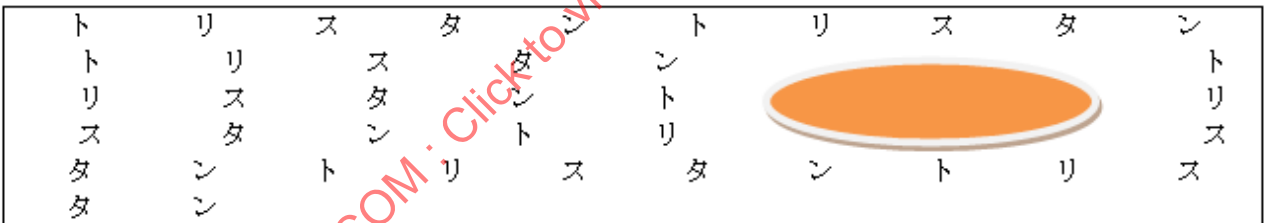
If this document contains a table with a single cell, containing some text and a single floating shape, the contents of the cell are still snapped to the 10 characters per line character grid, as follows:



However, if this compatibility setting is turned on:

```
<w:compat>
  <w:doNotSnapToGridInCell />
</w:compat>
```

Then the presence of a floating object in each cell must result in the document grid setting being ignored, resulting in the following output:



The additional character pitch was still added to each character on the line, but those characters are no longer snapped to the document grid. *end example*]

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element’s content model is defined by the common boolean property definition in Part 1, §17.17.4.

14.7.3.12 doNotSuppressIndentation (Do Not Ignore Floating Objects When Calculating Paragraph Indentation)

This element specifies whether applications should ignore the presence of floating objects when calculating the starting position of paragraphs which are wrapped around floating objects.



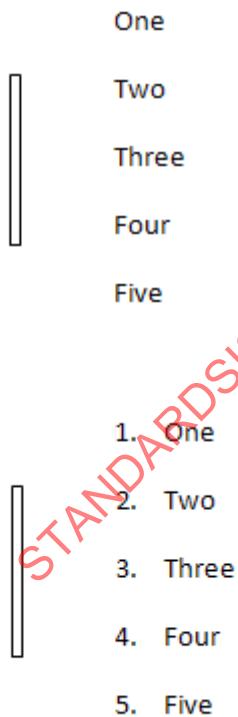
Typically, the presence of a floating object on the same line or lines as a paragraph shall only affect the text when the floating object occurs where that text would normally be presented. [*Example*: Text at a 1" indentation would only be displaced by a floating object that appears at that position and not one that appears from 0" to 0.5" on the same line. *end example*].

This element, when present with a `val` attribute value of `true` (or equivalent), specifies that floating objects shall always impact paragraphs on the same line in two ways:

- If the paragraph is not numbered, then it shall tightly wrap any floating object which precedes it on the same line, ignoring its own indentation settings. [*Example*: A paragraph with a 1" left indent shall tightly wrap a floating object which appears at only 0.25" on the same line. *end example*]
- If the paragraph is numbered using the `numPr` element (Part 1, §17.3.1.19), then it shall calculate and use its full indent relative to the edge of the floating object, not relative to the edge of the page. [*Example*: A numbered paragraph with a 1" left indent must appear 1.5" into the page if it is preceded by a floating object which appears at 0.5" on the same line. *end example*]

[*Example*: Consider a WordprocessingML document with a narrow floating object at 0.5" on the page, surrounded by both numbered and unnumbered paragraphs.

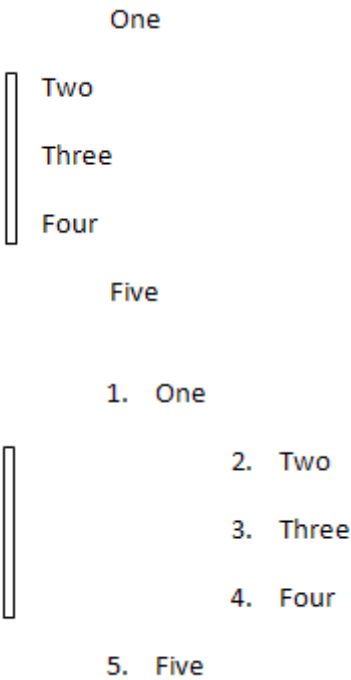
The default presentation would have no impact on the paragraphs based on that floating object, since the two do not intersect:



However, if this compatibility setting is turned on:

```
<w:compat>
  <w:doNotSuppressIndentation />
</w:compat>
```

Then the two alternate rules defined above would apply, resulting in the following output:



*end example]*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element’s content model is defined by the common boolean property definition in Part 1, §17.17.4.

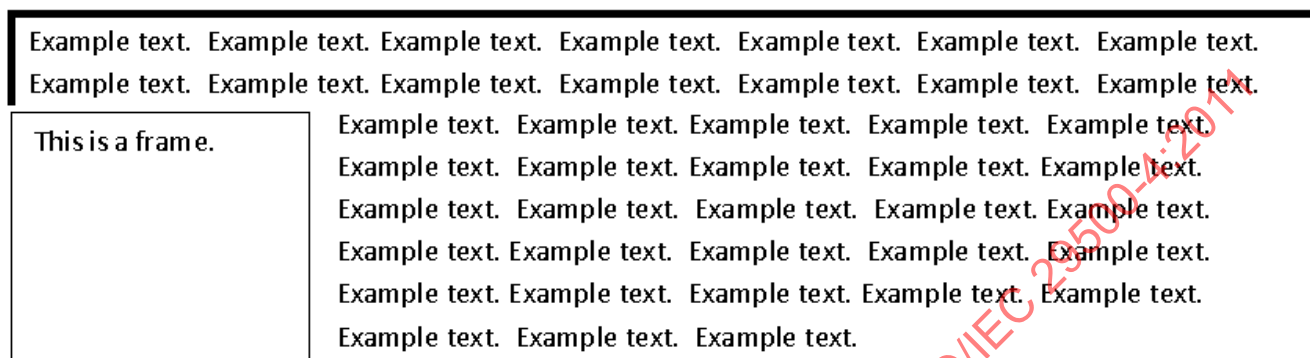
14.7.3.13 **doNotSuppressParagraphBorders (Do Not Suppress Paragraph Borders Next To Frames)**

This element specifies whether applications should suppress paragraph borders defined using the pBdr element (Part 1, §17.3.1.24) when those borders would be displayed next to the contents of paragraphs which have been defined as frames using the framePr element (Part 1, §17.3.1.11).

Typically, when a paragraph’s borders appear next to a frame, those borders are suppressed to avoid having two borders in close proximity. This element, when present with a val attribute value of true (or equivalent), specifies that those borders shall not be suppressed.

[*Example:* Consider a WordprocessingML document with a paragraph with a paragraph border that is bounded on its bottom left side by a text frame.

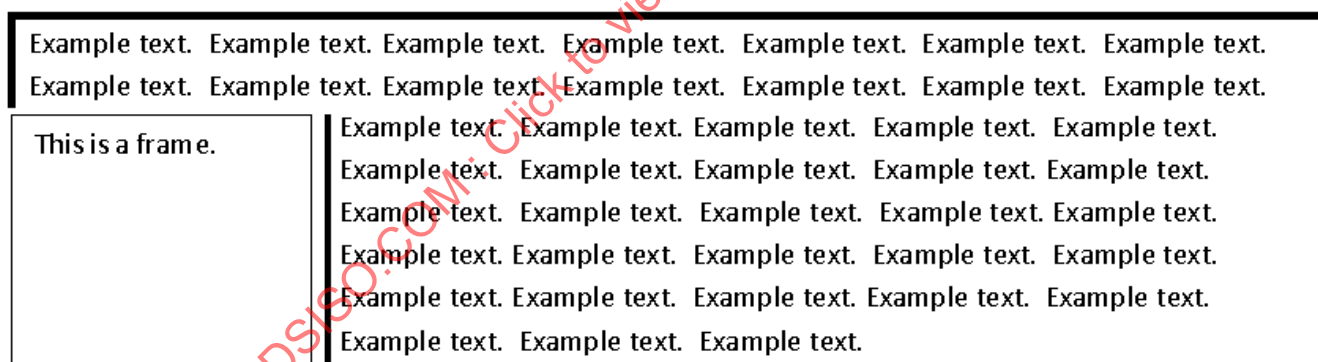
The default presentation would suppress the borders which intersect the frame (in this case, the right border of lines three through eight):



However, if this compatibility setting is turned on:

```
<w:compat>
  <w:doNotSuppressParagraphBorders />
</w:compat>
```

Then no border suppression must take place, resulting in the following output:



*end example]*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

#### 14.7.3.14 doNotUseEastAsianBreakRules (Do Not Compress Compressible Characters When Using Document Grid)

This element specifies whether applications should compress characters with identical compression rules when the document grid has been defined using the docGrid element (Part 1, §17.6.5). *Compression rules* refer to the additional bearing on the left and/or right side of a typical character, which can be compressed as needed without modifying the actual width of the character (its breadth).

Typically, punctuation characters with an identical set of compression rules are compressed when the contents of a document are displayed. This element, when present with a val attribute value of true (or equivalent), specifies that if a document grid is defined for the current section, compression shall never be performed on any character - all compressible characters shall be individually snapped to the document grid.

[Example: Consider a WordprocessingML document with a document grid set to allow 10 characters per line:

```
<w:sectPr>
  <w:docGrid w:type="snapToChars" w:charSpace="146636" />
</w:sectPr>
```

The default presentation would allow characters with identical compression rules to compress and utilize a single slot on the document grid (notice that the four parenthesis on the first line are combined since they can be compressed identically, while the two parenthesis with different compression on line two are not):

```
あ あ あ あ ) ) ) ) v あ あ あ あ
あ あ あ あ a あ あ ) (
```

However, if this compatibility setting is turned on:

```
<w:compat>
  <w:doNotUseEastAsianBreakRules />
</w:compat>
```

Then no character with compression is compressed and instead are snapped to the grid individually, resulting in the following output:

```
あ あ あ あ ) ) ) ) v あ
あ あ あ あ あ あ あ a あ あ )
(
```

*end example]*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

#### 14.7.3.15 doNotUseHTMLParagraphAutoSpacing (Use Fixed Paragraph Spacing for HTML Auto Setting)

This element specifies whether applications should use a fixed definition when interpreting automatic paragraph spacing defined by a value of true (or equivalent) on the beforeAutospacing and/or afterAutospacing attributes on the spacing element (Part 1, §17.3.1.33).

Typically, applications shall interpret these settings to match the behavior of most HTML user agents, mimicking the default spacing above and below an HTML p element without additional spacing information. This element, when present with a val attribute value of true (or equivalent), specifies that those two attributes shall result in the following settings for each value:

- beforeAutospacing = 5 points of spacing before
- afterAutospacing = 10 points of spacing after

[Example: Consider a WordprocessingML document with a three paragraphs using HTML autospacing, as follows:

```
<w:p>
  <w:pPr>
    <w:spacing w:beforeAutospacing="true" w:afterAutospacing="true" />
  </w:pPr>
  <w:r>
    <w:t>Paragraph One</w:t>
  </w:r>
</w:p>
<w:p>
  <w:pPr>
    <w:spacing w:beforeAutospacing="true" w:afterAutospacing="true" />
  </w:pPr>
  <w:r>
    <w:t>Paragraph Two</w:t>
  </w:r>
</w:p>
```

```
<w:p>
  <w:pPr>
    <w:spacing w:beforeAutospacing="true" w:afterAutospacing="true" />
  </w:pPr>
  <w:r>
    <w:t>Paragraph Three</w:t>
  </w:r>
</w:p>
```

The default presentation would result in output designed to match that of all common HTML user agents:

Paragraph One.

Paragraph Two.

Paragraph Three.

However, if this compatibility setting is turned on:

```
<w:compat>
  <w:doNotUseHTMLParagraphAutoSpacing />
</w:compat>
```

Then the paragraphs has exact spacing of 5 points before and 10 points after, resulting in the following output:

Paragraph One.

Paragraph Two.

Paragraph Three.

Notice that the paragraphs are more condensed in the second example. *end example]*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element’s content model is defined by the common boolean property definition in Part 1, §17.17.4.

14.7.3.16 doNotUseIndentAsNumberingTabStop (Ignore Hanging Indent When Creating Tab Stop After Numbering)

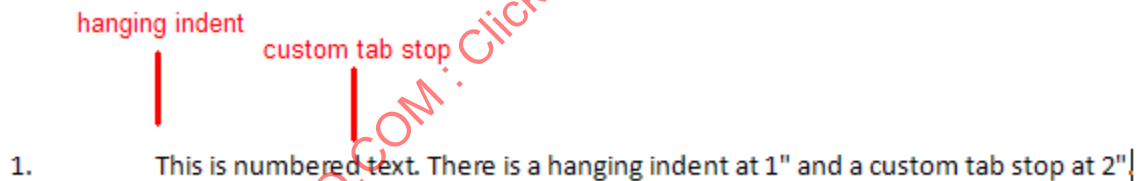
This element specifies whether applications shall use the custom tab stop generated by the hanging indent (if any) when advancing the text after the numbering for a numbered paragraph.

Typically, a hanging indent on a paragraph creates a virtual custom tab stop at that location, and therefore a tab added after the numbering on a numbered paragraph by the `suff` element (Part 1, §17.9.29) shall advance to that tab stop, so that the text of the numbered paragraph begins at that location. This element, when present with a `val` attribute value of `true` (or equivalent), specifies that a tab stop added as the suffix to the numbering of a numbered paragraph shall ignore that virtual custom tab stop and shall instead advance to the next real tab stop (custom or automatic) on the current line.

[Example: Consider a WordprocessingML document with numbering, whose first level of numbering specifies a tab stop suffix, a hanging indent at 1", and a custom tab stop at 2":

```
<w:abstractNum w:abstractNumId="0">
...
<w:lvl w:ilvl="0">
  <w:suff w:val="tab" />
  <w:pPr>
    <w:ind w:left="1440" w:hanging="1440" />
    <w:tabs>
      <w:tab w:val="2880" />
    </w:tabs>
  </w:pPr>
</w:lvl>
</w:abstractNum>
```

The default presentation of this document results in the tab stop generated by the numbering advancing to the virtual tab stop generated by the hanging indent at 1", as follows:



1. This is numbered text. There is a hanging indent at 1" and a custom tab stop at 2"

However, if this compatibility setting is turned on:

```
<w:compat>
  <w:doNotUseIndentAsNumberingTabStop />
</w:compat>
```

Then that tab suffix ignores the virtual tab stop of the hanging indent, so it must advance to the next custom tab stop on the line (at 2"), resulting in the following output:

1. This is numbered text. There is a hanging indent at 1" and a custom tab stop at 2".

end example]

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

14.7.3.17 doNotVertAlignCellWithSp (Don't Vertically Align Cells Containing Floating Objects)

This element specifies whether applications shall vertically align the contents of a table cell, even when the contents of that table cell include one or more floating objects. Note that the floating object shall be part of the cell, and simply not displayed over the cell due to its anchoring relative to another part of the document.

Typically, if the alignment of a table cell in a WordprocessingML document is specified, then the entire contents of that cell are aligned as specified [Example: The entire contents of the cell are centered vertically and moved right-aligned horizontally at that point. end example]. This element, when present with a val attribute value of true (or equivalent), specifies that whenever a floating object is present in a table cell, that no vertical alignment shall be applied to the contents of that cell, and the contents of the cell shall instead always be top aligned to the cell's contents.

[Example: Consider a WordprocessingML table with two cells, each containing some text and a single floating shape. The first cell is vertically aligned to the bottom of the cell, and the second cell is vertically aligned to the center of the cell.

The default presentation of this document results in each cell (including the extents of the floating objects) being vertically aligned as specified, as follows:

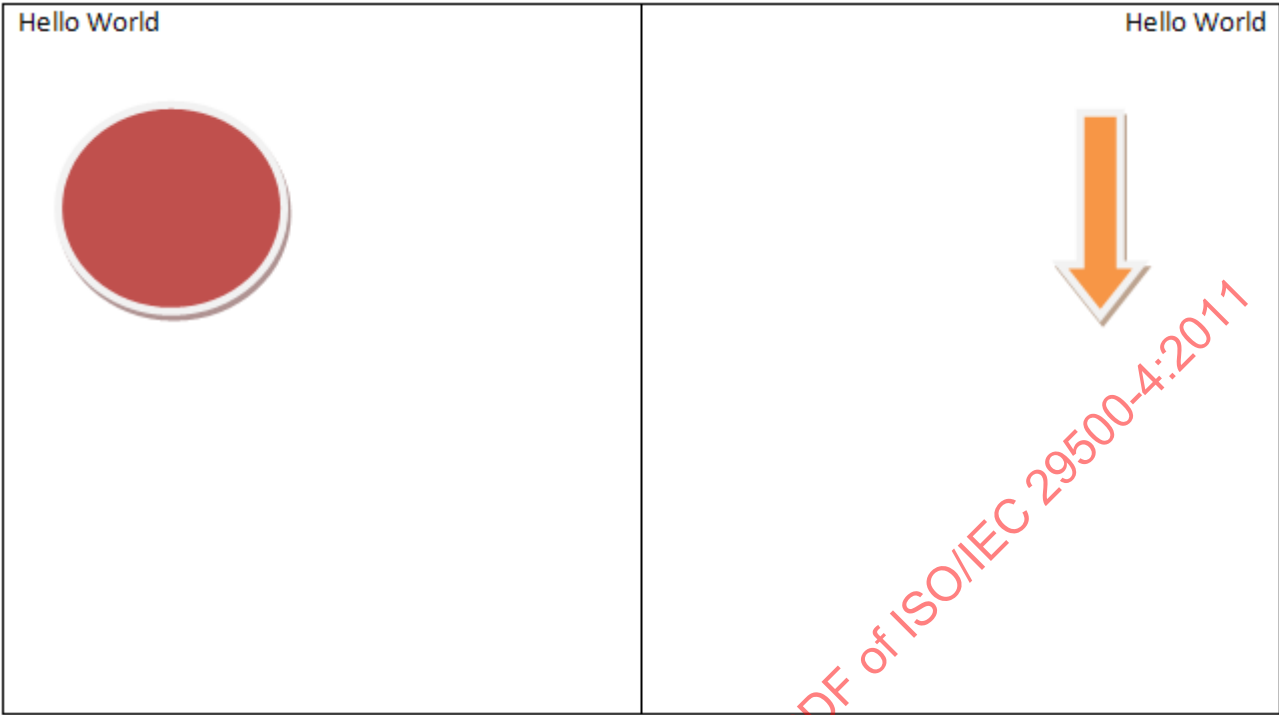




However, if this compatibility setting is turned on:

```
<w:compat>  
  <w:doNotVertAlignCellWithSp />  
</w:compat>
```

Then the presence of a floating object in each cell must result in the vertical alignment setting being ignored (each vertical alignment must be top-aligned relative to the cell), resulting in the following output:



*end example]*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element’s content model is defined by the common boolean property definition in Part 1, §17.17.4.

**14.7.3.18 doNotVertAlignInTxbx (Ignore Vertical Alignment in Textboxes)**

This element specifies whether applications shall allow text within text boxes to be vertically aligned when the v-text-anchor property is set within the parent VML shape.

Typically, if when the v-text-anchor property is set within the parent VML shape, then based on the value of that property, the text is top, center, or bottom aligned appropriately. This element, when present with a val attribute value of true (or equivalent), specifies that the property shall be ignored, and instead the contents of the table shall always be top-aligned.

[Example: Consider a WordprocessingML table with a single center-aligned text box:

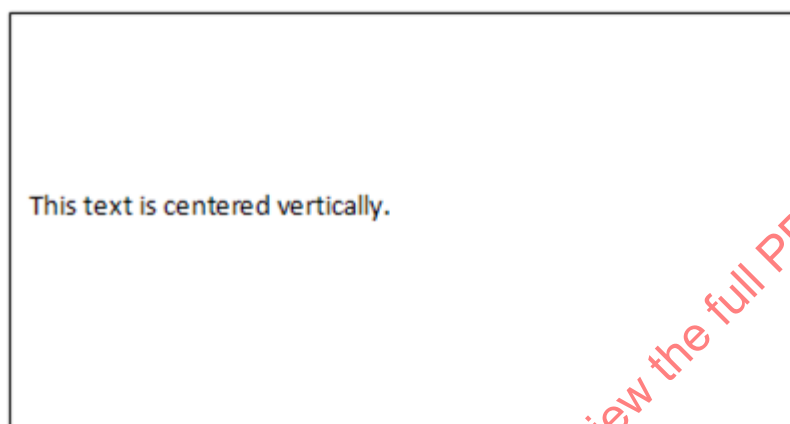
```
<v:shape id="_x0000_s1026" type="#_x0000_t202" style="v-text-anchor:middle">
  <v:textbox>
    <w:txbxContent>
```

```

<w:p>
  <w:r>
    <w:t>This text is centered vertically.</w:t>
  </w:r>
</w:p>
</w:txbxContent>
</v:textbox>
</v:shape>

```

The default presentation of this document results in the contents of the text box being center aligned, as follows:



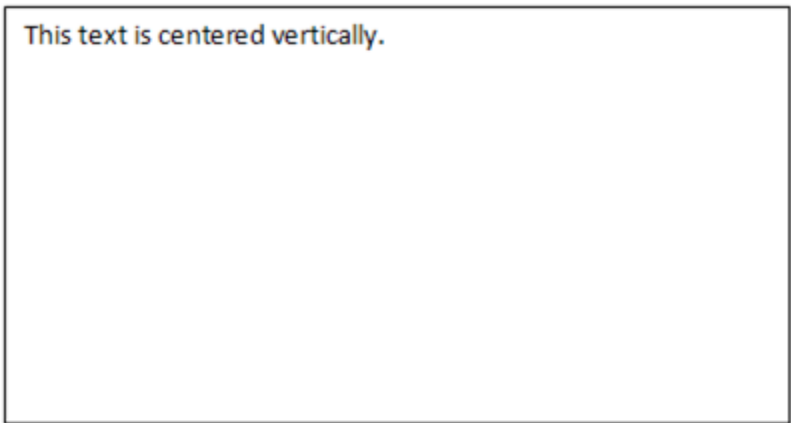
However, if this compatibility setting is turned on:

```

<w:compat>
  <w:doNotVertAlignInTxbx />
</w:compat>

```

Then the text must always be top aligned, regardless of the -text-anchor property, resulting in the following output:



*end example]*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

14.7.3.19      **doNotWrapTextWithPunct (Do Not Allow Hanging Punctuation With Character Grid)**

This element specifies whether applications shall allowing hanging punctuation when:

- The overflowPunct element (Part 1, §17.3.1.21) is turned on for a paragraph
- A document grid is defined using the docGrid element (Part 1, §17.6.5) which defines the number of characters per line

Typically, paragraphs which allow hanging punctuation shall allow the number of characters on a line as specified by the document grid to be exceeded by one in order to allow for hanging punctuation. This element, when present with a val attribute value of true (or equivalent), specifies that the document grid shall never be exceeded for hanging punctuation.

[Example: Consider a WordprocessingML document with a document grid set to allow 10 characters per line:

```
<w:sectPr>
  <w:docGrid w:type="snapToChars" w:charSpace="146636" ... />
</w:sectPr>
```

If the eleventh character on the line was a punctuation characters, the default presentation would allow that character to behave as hanging punctuation on the first line:

“ 言 葉 が 言 葉 が 言 葉 が ”  
 言 葉 が 言 葉

However, if this compatibility setting is turned on:

```
<w:compat>
  <w:doNotwrapTextWithPunct />
</w:compat>
```

Then the character grid cannot be exceeded even for the hanging punctuation, resulting in the following output:

“ 言 葉 が 言 葉 が 言 葉  
 が ” 言 葉 が 言 葉

The hanging punctuation was disallowed, moving it (and the character before it, since that character cannot begin a line) to the following line. *end example*]

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

#### 14.7.3.20 footnoteLayoutLikeWW8 (Ignore Page Break from Continuous Section Break)

This element specifies that applications should override the default behaviour for a continuous section break when one or more footnotes are present on the page with the footnote. This override typically results in text being displayed on the same page as a continuous section break (after the break, which would normally move all following text to the next page).

Typically, applications render a continuous section break as a page break when one or more footnoteRef elements (Part 1, §17.11.13) occur on that page before the break, as described in Part 1, §17.18.77. This element, when present with a val attribute value of true (or equivalent), specifies that applications should allow any paragraph after the section break that contains no footnoteRef elements (Part 1, §17.11.13) to be displayed on the same page. If the resulting content reaches the page extents, the section's page break is ignored.

[*Example*: Consider a WordprocessingML document with two footnotes contained in two sections, separated by a continuous section break:

```
<w:p>
```

```

    <w:r>
      <w:t xml:space="preserve">Here is the first paragraph in the first
section.</w:t>
    </w:r>
</w:p>
<w:p>
  <w:r>
    <w:t>Here is the second paragraph in the first section.</w:t>
  </w:r>
  <w:r>
    <w:rPr>
      <w:rStyle w:val="FootnoteReference" />
    </w:rPr>
    <w:footnoteReference w:id="2" />
  </w:r>
</w:p>
<w:p/>
<w:p>
  <w:pPr>
    <w:sectPr>
      ...
    </w:sectPr>
  </w:pPr>
</w:p>
<w:p>
  <w:r>
    <w:t>Here is the first paragraph in the second section.</w:t>
  </w:r>
</w:p>
<w:p>
  <w:r>
    <w:t xml:space="preserve">Here is the second paragraph in the second
section.</w:t>
  </w:r>
  <w:r>
    <w:rPr>
      <w:rStyle w:val="FootnoteReference" />
    </w:rPr>
    <w:footnoteReference w:id="3" />
  </w:r>
</w:p>
<w:p>
  <w:r>

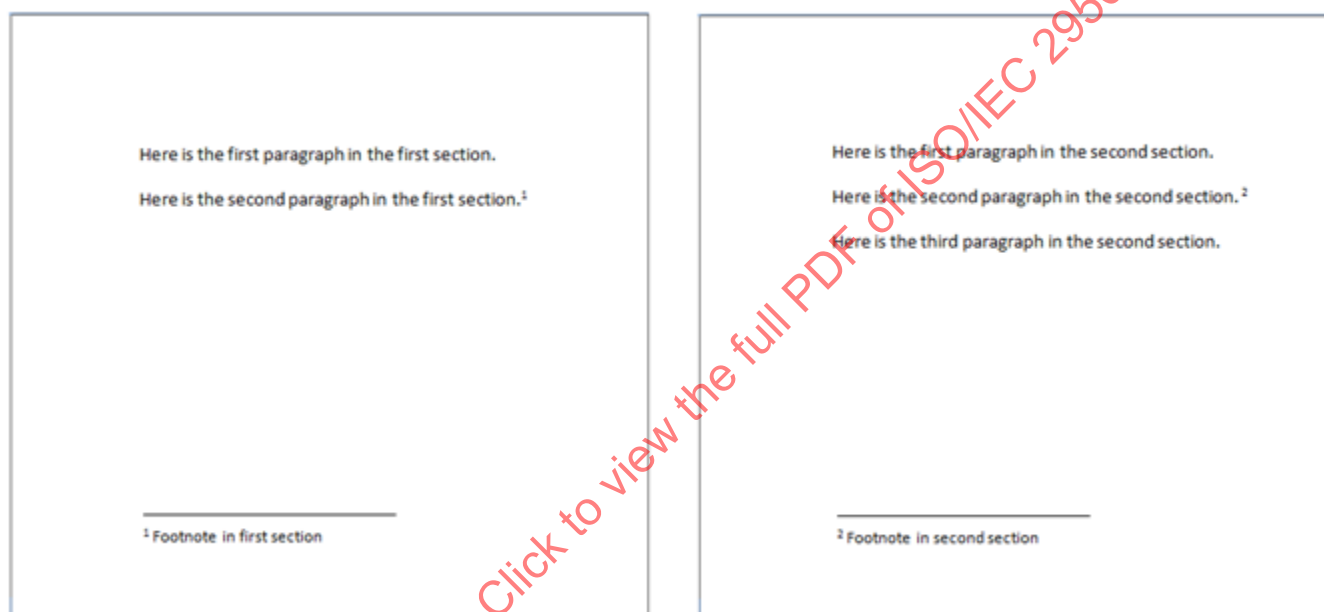
```

```

    <w:t xml:space="preserve">Here is the third paragraph in the second section.
  </w:t>
  </w:r>
</w:p>
<w:sectPr>
  <w:type w:val="continuous" />
  ...
</w:sectPr>

```

The default rendering of such a document results in the continuous section break as a page break, resulting in the following two page document:



However, if this compatibility setting is turned on:

```

<w:compat>
  <w:footnoteLayoutLikeWW8 />
</w:compat>

```

Then the first paragraph following the section break (not having any footnote references) is displayed on the same page, despite the section break, resulting in the following output:

|                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Here is the first paragraph in the first section.</p> <p>Here is the second paragraph in the first section.<sup>1</sup></p> <p>.....Section Break (Continuous) .....</p> <p>Here is the first paragraph in the second section.</p> <hr/> <p><sup>1</sup> Footnote in first section</p> | <p>Here is the second paragraph in the second section.<sup>2</sup></p> <p>Here is the third paragraph in the second section.</p> <hr/> <p><sup>2</sup> Footnote in second section</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

end example]

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element’s content model is defined by the common boolean property definition in Part 1, §17.17.4.

14.7.3.21 forgetLastTabAlignment (Ignore Width of Last Tab Stop When Aligning Paragraph If It Is Not Left Aligned)

This element specifies how applications should handle the final tab stop on a line when aligning the contents of a paragraph as specified by the jc element (Part 1, §17.3.1.13) in the paragraph's properties.

Typically, aligning the contents of a paragraph involves the following:

- Determining the layout of that line before the alignment (including all tab stops)
- Aligning the resulting contents of the line

This is done to ensure that tab stops on a line do not change when the contents of the paragraph are aligned (i.e. the tab stops should not have to take into account the paragraph alignment).

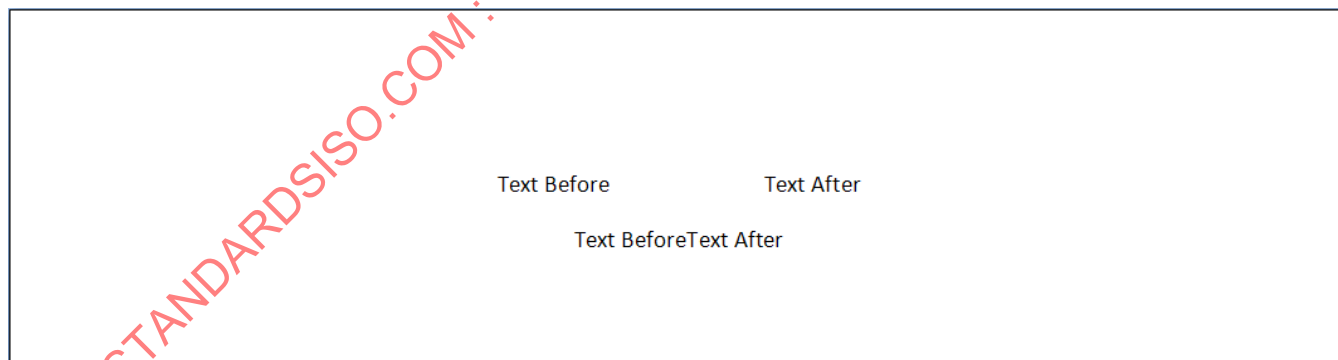
This element, when present with a val attribute value of true (or equivalent), specifies that applications shall ignore the additional line width generated by the last tab stop (and only the last tab stop) when the alignment of the tab stop as defined by the val attribute on the tab element (Part 1, §17.3.1.37) is not left (or bar, which as defined by ISO/IEC 29500, is not a tab stop per se) when determining the width of the line. The resulting full line shall then be aligned at the position where the line would have been aligned without that tab stop.



[Example: Consider a WordprocessingML document with two center aligned paragraphs of text - the first also containing a centered tab stop positioned at 2":

```
<w:p>
  <w:pPr>
    <w:tabs>
      <w:tab w:val="center" w:pos="2880" />
    </w:tabs>
    <w:jc w:val="center" />
  </w:pPr>
  <w:r>
    <w:t>Text Before</w:t>
    <w:tab/>
    <w:t>Text After</w:t>
  </w:r>
</w:p>
<w:p>
  <w:pPr>
    <w:jc w:val="center" />
  </w:pPr>
  <w:r>
    <w:t>Text BeforeText After</w:t>
  </w:r>
</w:p>
```

The default presentation would determine the full width of each line including the tab stops, finally aligning the resulting text to the center position as requested by the jc element:



However, if this compatibility setting is turned on:

```
<w:compat>
  <w:forgetLastTabAlignment />
</w:compat>
```

Then the width added to the line by the last tab is ignored when centering the paragraph because that tab is a center aligned tab stop, resulting in the following output:

|                       |            |
|-----------------------|------------|
|                       |            |
| Text Before           | Text After |
| Text BeforeText After |            |

In the resulting output, the starting location of both lines is at the same place on the page, as the resulting width of both lines is identical when the tab stop is removed from the line width calculation. *end example*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element’s content model is defined by the common boolean property definition in Part 1, §17.17.4.

14.7.3.22 growAutofit (Allow Tables to AutoFit Into Page Margins)

This element specifies whether applications shall allow a table which is using the AutoFit table layout algorithm to extend beyond the margins of the page if the minimum width of each table cell would result in an overall table width which is wider than those page margins.

Typically, if a table is using the AutoFit layout algorithm, then based on the definition of that logic, each column in the table shall be increased to the minimum width of its contents (e.g. the longest non-breaking run of text contained within it and/or the width of an inline image contained in one of its cells) until the overall width of the table reaches that of the text extents on the page, at which point text shall be broken and images shall be clipped as needed to maintain the width of the table at the page width (i.e. the page width is an immutable maximum width for the table). This element, when present with a val attribute value of true (or equivalent), specifies that the minimum width of the cells shall not be constrained by the page width, and instead the table shall be allowed to extend into the page margins as needed in order to meet the minimum widths of each of its cells.

[Example: Consider a WordprocessingML table with three cells in each row. If the contents of each cell in that first row each contain a long non-breaking string (such that the minimum widths of each cell's contents exceed the page width), then the rules for table AutoFit specify that each cell must be broken proportionally when the overall width of the table reaches the page width.

The default presentation of this document results in each cell being broken as needed to maintain the table width, as follows:

|                                              |                                              |                                              |
|----------------------------------------------|----------------------------------------------|----------------------------------------------|
| veryverylongnonbreakingstringin<br>thistable | veryverylongnonbreakingstringin<br>thistable | veryverylongnonbreakingstringin<br>thistable |
|                                              |                                              |                                              |

However, if this compatibility setting is turned on:

```
<w:compat>
  <w:growAutofit />
</w:compat>
```

Then the presence of those long non-breaking strings (and the resulting large minimum widths for each table cell) must result in a table width which is then allowed to override the page margins, resulting in the following output:

|                                              |                                              |                                               |
|----------------------------------------------|----------------------------------------------|-----------------------------------------------|
| veryverylongnonbreakingstringinthis<br>table | veryverylongnonbreakingstringinthis<br>table | veryverylongnonbreakingstringin<br>this table |
|                                              |                                              |                                               |

The resulting table is clipped by the edge of the page on its right side, but the minimum widths of each cell are maintained as defined by the long non-breaking string contents of each. *end example*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

#### 14.7.3.23 layoutRawTableWidth (Ignore Space Before Table When Deciding If Table Should Wrap Floating Object)

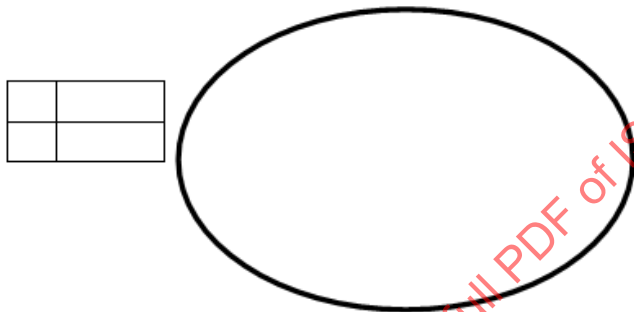
This element specifies how tables which have been indented from the margin using the tblInd element (Part 1, §17.4.51) shall be wrapped around floating objects.

Typically, when a table is positioned next to a floating object, the table shall only remain next to the object if it can fit in the remaining space on the line when considering the full width needed for the table: the space before the table, plus the width of the table. This element, when present with a val attribute value of true (or equivalent), specifies that the calculation determining whether the table shall fit next to the object shall not include the space before the table, even if that means that the table is actually clipped by the object.

[Example: Consider a WordprocessingML document with a floating shape using square wrapping, next to a table which has been indented one inch from the left margin:

```
<w:tbl>
  <w:tblPr>
    <w:tblInd w:w="1440" w:type="dxa" />
  </w:tblPr>
  ...
</w:tbl>
```

The resulting presentation would place the table next to the object:



The diagram shows a rectangular table with two rows and two columns positioned to the left of a large oval shape. Both are aligned to the top of the same horizontal line.

|  |  |
|--|--|
|  |  |
|  |  |

If this object is then moved to the left, such that it would clip the table, the default presentation would have the entire table moved below the shape, since it does not fit in the remaining space on the line:



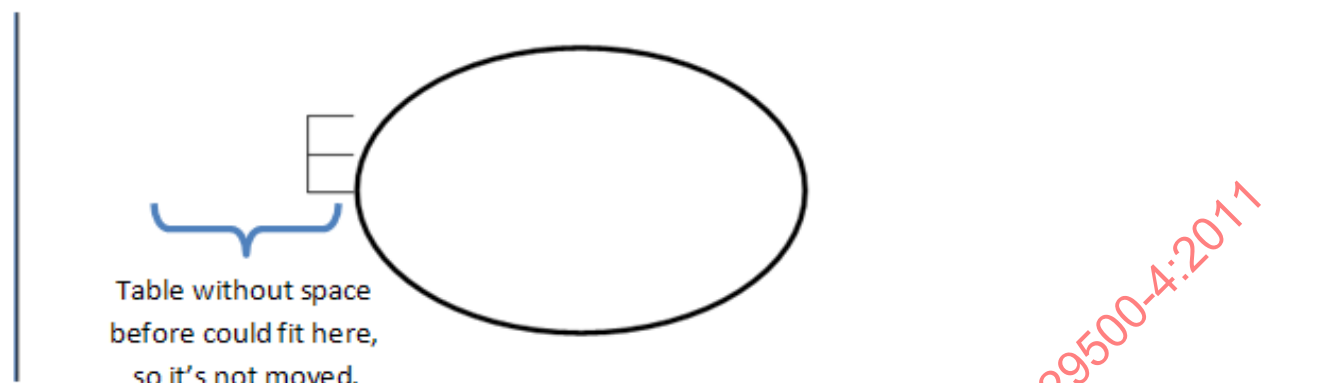
The diagram shows the same oval shape as in the previous diagram. The table is now positioned below the oval, starting from the same left margin. This indicates that the table was moved down because it could not fit on the line with the shape.

|  |  |
|--|--|
|  |  |
|  |  |

However, if this compatibility setting is turned on:

```
<w:compat>
  <w:layoutRawTableWidth />
</w:compat>
```

Then the determination to move the table is done ignoring the spaced needed before the table, resulting in the following output:



The resulting table is clipped behind the object, as the fit calculation ignores the space needed before the table.  
*end example]*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

#### 14.7.3.24 `layoutTableRowsApart` (Allow Table Rows to Wrap Inline Objects Independently)

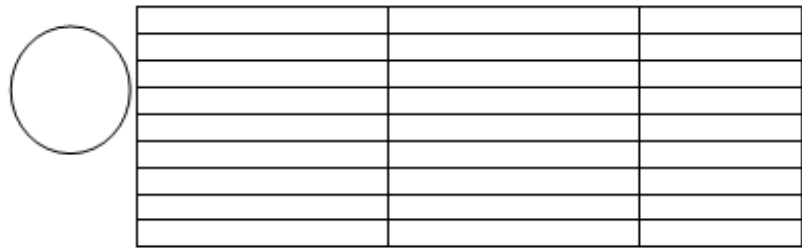
This element specifies whether tables which are wrapping around floating objects shall wrap around the object as a whole, or if each table row shall individually wrap the object as needed (causing a more stuttered, yet tighter, wrapping of the object).

Typically, when a table wraps around a floating object, the table shall wrap the object as a unit (i.e. the whole table square wraps the object). This element, when present with a `val` attribute value of `true` (or equivalent), specifies that wrapping is applied to each row in the table one by one, even if it means that each row has a different resulting position with respect to the table.

[*Example:* Consider a WordprocessingML document with a floating shape using square wrapping.

The default presentation would have the entire table wrapping around that shape:

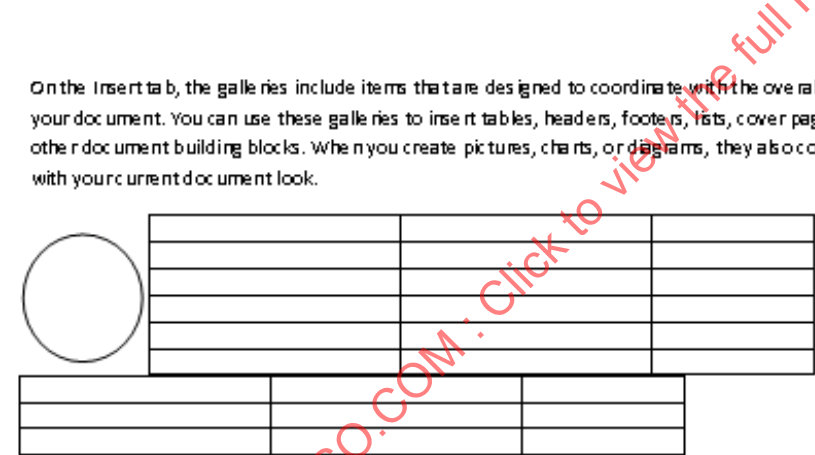
On the Insert tab, the galleries include items that are designed to coordinate with the overall look of your document. You can use these galleries to insert tables, headers, footers, lists, cover pages, and other document building blocks. When you create pictures, charts, or diagrams, they also coordinate with your current document look.



However, if this compatibility setting is turned on:

```
<w:compat>
  <w:layoutTableRowsApart />
</w:compat>
```

Then each row would wrap around the shape one by one, resulting in the following output:



end example]

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element’s content model is defined by the common boolean property definition in Part 1, §17.17.4.

### 14.7.3.25 `lineWrapLikeWord6` (Ignore Compression of Full-Width Punctuation Ending a Line)

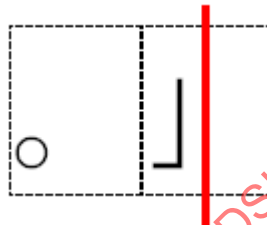
This element specifies that applications should ignore the character compression settings specified by the `characterSpacingControl` element (Part 1, §17.15.1.18) when determining if one more character fits within the text margins on each line of the document. This setting typically results in a character being pushed to the following line, ignoring the fact that the character compression settings would have allowed it to fit within the text boundaries.

Typically, an application would check the character compression settings, and apply any character-level whitespace compression before attempting to fit the last character on the line. This element, when present with a `val` attribute value of `true` (or equivalent), specifies that applications shall ignore that compression and fit the character as if it should be displayed at its full width, regardless of whether the compression settings are applied.

[*Example:* Consider a paragraph which ends with the following two characters (with each character's bounding box outlined for illustrative purposes:



If the document's character compression settings were not set to `doNotCompress` and text extent fell at the location identified by this red line:



The last character would have compression applied to its blank half, and would fit on the line.

If this compatibility setting is turned on:

```
<w:compat>
  <w:lineWrapLikeWord6 />
</w:compat>
```

Then applications should compress the character, but should treat the character as full width when determining if it fits on the line; in this case, the second character would be displayed on the following line. *end example*]

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

**14.7.3.26 mwSmallCaps (Use Specific Small Caps Algorithm)**

This element specifies that applications should use a specific algorithm to determine the font size of small caps (the formatting resulting from the use of the smallCaps element (Part 1, §17.3.2.33). This emulation typically results in small caps which are smaller than typical small caps at most font sizes.

Typically, applications can utilize any algorithm that results in small caps formatting. This element, when present with a val attribute value of true (or equivalent), specifies that applications should determine the font size for small caps using the following algorithm:

- If  $font \leq 7$ , then the font size for small caps is 7 points.
- Otherwise, sequentially iterate through *sequence* until  $sequence[i] \leq font \leq sequence[i + 1]$ , at which point the font size for small caps is  $sequence[i]$  points.

where

- *sequence* is an array defined as follows:  
 $\{7, 9, 10, 12, 14, 18, 24, 36, 48, 60, 72, 80, x_1, x_2, \dots, x_n\}$  where  $x_n = 80 + 10 * n$ .
- *font* is an integer calculated as follows:  
The font size of the run to which small caps formatting is applied (in points).

[Example: Consider a WordprocessingML document with small caps on its text contents.

If this compatibility setting is turned on:

```
<w:compat>
  <w:mwSmallCaps />
</w:compat>
```

And the font size for a single run is 16 points, and performing the algorithm above would result in 14 points as the calculated font size for small caps. *end example*]

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.



#### 14.7.3.27 noColumnBalance (Do Not Balance Text Columns within a Section)

This element specifies whether the contents of sections with multiple columns defined using the `cols` element (Part 1, §17.6.4) should automatically be balanced. In terms of column layout, *balancing* is the act of attempting to ensure that the number of lines in each column is equivalent (rather than completely filling one column before populating the next).

Typically, column balancing is automatically performed on the contents of sections with multiple columns. This element, when present with a `val` attribute value of `true` (or equivalent), specifies that column balancing shall not occur, and each column shall be filled individually until the end of the current page, until all text has been displayed, even if this means one or more columns are unused.

[*Example:* Consider a WordprocessingML document with an initial section with three columns, defined by the following section properties:

```
<w:sectPr>
  <w:cols w:num="3" w:space="720" />
</w:sectPr>
```

The default presentation would have the text in that section balanced between those three columns:

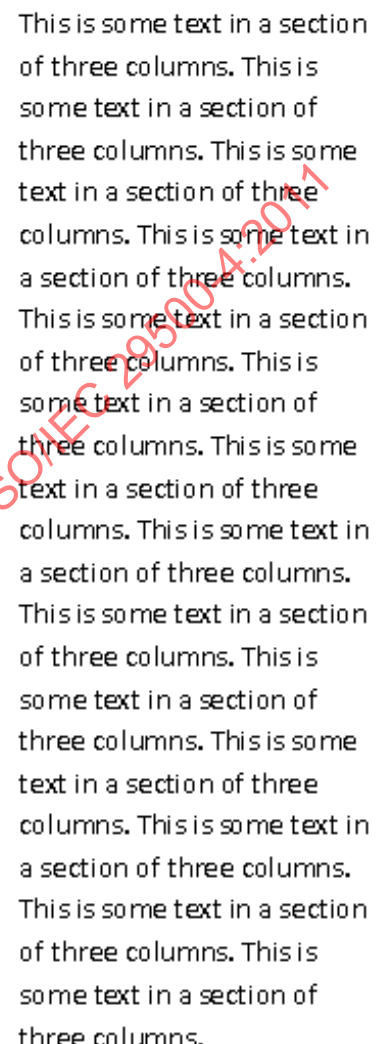
This is some text in a section  
of three columns. This is  
some text in a section of  
three columns. This is some  
text in a section of three  
columns. This is some text in  
a section of three columns.  
This is some text in a section  
of three columns. This is  
some text in a section of  
three columns. This is some  
text in a section of three  
columns. This is some text in  
a section of three columns.  
This is some text in a section  
of three columns. This is  
some text in a section of  
three columns. This is some  
text in a section of three  
columns. This is some text in

a section of three columns.  
This is some text in a section  
of three columns. This is  
some text in a section of  
three columns. This is some  
text in a section of three  
columns. This is some text in  
a section of three columns.

This is some text in a section  
of three columns. This is  
some text in a section of  
three columns. This is some  
text in a section of three  
columns. This is some text in  
a section of three columns.  
This is some text in a section  
of three columns. This is  
some text in a section of  
three columns. This is some  
text in a section of three  
columns. This is some text in  
a section of three columns.  
This is some text in a section  
of three columns. This is  
some text in a section of  
three columns. This is some  
text in a section of three

columns. This is some text in  
a section of three columns.

This is some text in a section  
of three columns. This is  
some text in a section of  
three columns. This is some  
text in a section of three  
columns. This is some text in  
a section of three columns.  
This is some text in a section  
of three columns. This is  
some text in a section of  
three columns. This is some  
text in a section of three  
columns. This is some text in  
a section of three columns.  
This is some text in a section  
of three columns. This is  
some text in a section of  
three columns.

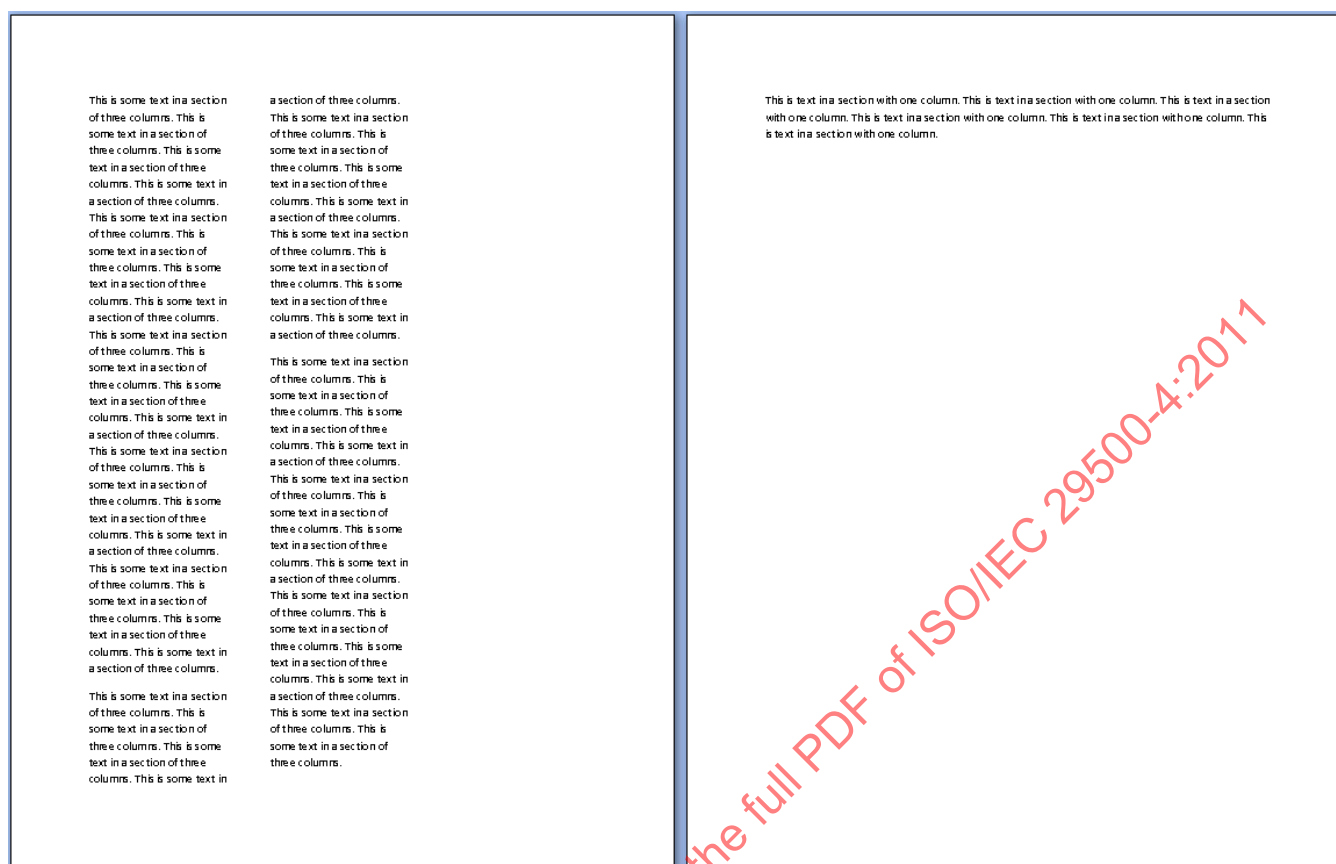


This is text in a section with one column. This is text in a section with one column. This is text in a section with one column. This is text in a section with one column. This is text in a section with one column. This is text in a section with one column.

However, if this compatibility setting is turned on:

```
<w:compat>
  <w:noColumnBalance />
</w:compat>
```

Then the columns are not balanced, and the contents of the section are used to fill each column to the bottom of the current page in succession, resulting in the following output:



The next section is now forced to begin on the next page, as the columns on page one extend to the bottom of that page. *end example]*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

#### 14.7.3.28 **noExtraLineSpacing (Do Not Center Content on Lines With Exact Line Height)**

This element specifies whether an exact line height using the spacing element (Part 1, §17.3.1.33) in the paragraph's properties, each line shall not be automatically centered within the given amount of line spacing.

Typically, if the exact amount of spacing allotted to a line via the paragraph properties exceeds the amount of space required by that line, then the line of text shall be automatically centered when the text of the document is displayed. This element, when present with a `val` attribute value of `true` (or equivalent), specifies that all additional spacing shall instead be placed below the normal layout of the line of text.

[*Example:* Consider a WordprocessingML document with a line with an exact height of 32 points:

```
<w:p>
  <w:pPr>
    <w:spacing w:line="640" w:lineRule="exact" />
  </w:pPr>
  <w:r>
    <w:t>This is text on a line that's exactly 32 points high.</w:t>
  </w:r>
</w:p>
```

The default presentation would have the resulting text centered on that line:

This is text

This is text on a line that's exactly 32 points high.

This is text.

However, if this compatibility setting is turned on:

```
<w:compat>
  <w:noExtraLineSpacing />
</w:compat>
```

Then all line spacing is added after the text, resulting in the following output:

This is text

This is text on a line that's exactly 32 points high.

This is text.

*end example]*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

### 14.7.3.29 noLeading (Do Not Add Leading Between Lines of Text)

This element specifies whether the additional leading specified by the current font face shall be added between each line of text when that text is displayed. *Leading* refers to the additional spacing requested by a particular

font in order to ensure that letters on subsequent lines do not display in a fashion where they are positioned too closely together.

Typically, leading should be added as specified by the associated font. This element, when present with a val attribute value of true (or equivalent), specifies that the additional leading specified by the font shall never be output when the text is displayed.

[*Example:* Consider a WordprocessingML document with three lines of text. The default presentation would have the text displayed as follows:

### **EXAMPLE TEXT**

Some text.  
Some text.  
Some text.

However, if this compatibility setting is turned on:

```
<w:compat>
  <w:noLeading />
</w:compat>
```

Then no leading is added between lines, resulting in the following output:

### **EXAMPLE TEXT**

Some text.  
Some text.  
Some text.

This adjustment is usually very minute in nature; therefore the result is better illustrated by showing how the characters were pushed out due to the leading added to that text:

### **EXAMPLE TEXT**

Some text.  
Some text.  
Some text.

*end example]*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

14.7.3.30 **noSpaceRaiseLower (Do Not Increase Line Height for Raised/Lowered Text)**

This element specifies whether the height which is allotted to any given line of text when the contents of this document are displayed shall include additional spacing in order to ensure that all raised and/or lowered text can be fully displayed.

Typically, any extra space needed is added to the line to prevent raised and lowered text from being truncated or hidden. This element, when present with a val attribute value of true (or equivalent), specifies that the height of the line shall be determined solely by the spacing settings on the parent paragraph, and any raised/lowered text shall just be clipped if it exceeds that space.

[Example: Consider a WordprocessingML document with both raised and lowered text. The default presentation would have that text visible:

This is text.

This is text – a lowered word, a raised word.

This is text.

However, if this compatibility setting is turned on:

```
<w:compat>  
  <w:noSpaceRaiseLower />  
</w:compat>
```

Then no additional space should be added to the line height, resulting in the following output:

This is text.

This is text – a lowered word, a raised word.

This is text.

end example]

| Parent Elements             |
|-----------------------------|
| compa (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

#### 14.7.3.31 noTabHangInd (Do Not Create Custom Tab Stop for Hanging Indent)

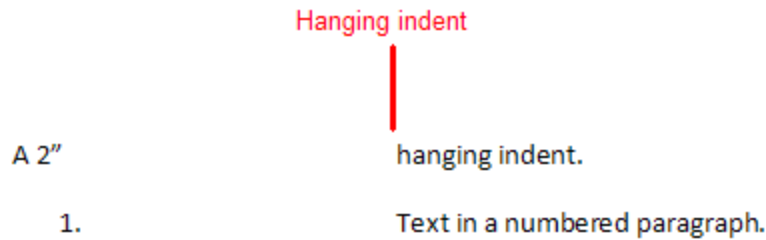
This element specifies whether applications should always create a hanging indent as a custom tab stop when handling tabs within the contents of a WordprocessingML paragraph. The dontUseIndentAsNumberingTabStop element (§14.7.3.16) specifies if this tab stop shall be used in the case of a tab added as the suffix to numbering in a numbered paragraph, while this element handles the same functionality in the generic case (i.e. this element, when set, renders that setting irrelevant as the tab stop is never used).

Typically, the hanging indent on a paragraph shall be treated as a custom tab stop location within that paragraph, allowing the first tab on the first line in the paragraph to advance to the location of the hanging indent. This element, when present with a val attribute value of true (or equivalent), specifies that no custom tab stop shall be created for a hanging indent on a line under any circumstances.

[Example: Consider a WordprocessingML document with two paragraphs (the second numbered, the first not), each with a 2" hanging indent defined as follows (assume the numbering suffix - not shown - is a tab character):

```
<w:p>
  <w:pPr>
    <w:ind w:left="2880" w:hanging="2880" />
  </w:pPr>
  <w:r>
    <w:t>A 2"</w:t>
    <w:tab/>
    <w:t>hanging indent</w:t>
  </w:r>
</w:p>
<w:p>
  <w:pPr>
    <w:numPr>
      <w:ilvl w:val="0" />
      <w:numId w:val="1" />
    </w:numPr>
    <w:ind w:left="2880" w:hanging="2880" />
  </w:pPr>
  <w:r>
    <w:t>Text in a numbered paragraph.</w:t>
  </w:r>
</w:p>
```

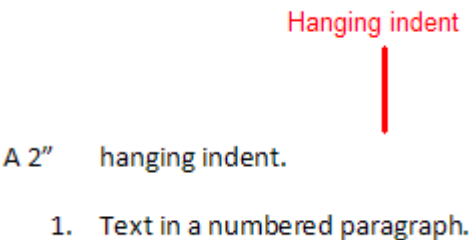
The default presentation would have both the numbering and the tab in the regular paragraph advancing to the 2" custom tab stop generated by the hanging indent:



However, if this compatibility setting is turned on:

```
<w:compat>
  <w:noTabHangInd />
</w:compat>
```

Then no tab stop exists at 2", and therefore the tab stops must advance to the location of the next automatic tab stop for this document (which is set to occur every 0.5"), resulting in the following output:



*end example]*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

#### 14.7.3.32 printBodyTextBeforeHeader (Print Body Text before Header/Footer Contents)

This element specifies the order in which the contents of the main document story and any headers and/or footers shall be sent to the printer.

Typically, the contents of a document are sent to the printer as follows:

- First, the contents of headers/footers are sent to the printer
- Finally, the contents of the main document story are sent to the printer



This element, when present with a `val` attribute value of `true` (or equivalent), specifies that this order shall be reversed, and that the body text shall be sent to the printer before any header/footer text. This reversal allows for the processing of PostScript codes in the text layer in the same order as afforded by some legacy word processing applications.

[*Example:* Consider a WordprocessingML document which is printed. The default resulting print order is the headers and footers for each page, followed by the page contents.

However, if this compatibility setting is turned on:

```
<w:compat>
  <w:printBodyTextBeforeHeader />
</w:compat>
```

Then this order must be reversed, and the page contents must be printed before the corresponding header and/or footer for each page. *end example]*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

#### 14.7.3.33 `printColBlack` (Print Colors as Black And White without Dithering)

This element specifies the way in which colored text and/or objects shall be handled when printed to a printer whose printer settings indicate that it can only handle black and white text.

Typically, the contents of a colored document are sent to a black and white printer using grayscale (different shades of gray) to represent each of the possible colors. This element, when present with a `val` attribute value of `true` (or equivalent), specifies that colors are not printed as mapped shades of grey, but rather exclusively in solid black and white. This setting prevents the fuzzy look that can occur when gray or blue content is dithered. *Dithering* is the process by which colors are simulated using various patterns of black dots on a white background

[*Example:* Consider a WordprocessingML document which is printed to a black and white printer. The default resulting printed content is typically dithered to appear in the appropriate shade of grayscale text.

However, if this compatibility setting is turned on:

```
<w:compat>
  <w:printColBlack />
</w:compat>
```

Then the page contents must be printed as exclusively black or exclusively white text as needed, and no grayscale output must occur. *end example]*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element’s content model is defined by the common boolean property definition in Part 1, §17.17.4.

14.7.3.34      **selectFldWithFirstOrLastChar** (Select Field When First or Last Character Is Selected)

This element specifies whether applications should automatically select the entire contents of a field in a WordprocessingML document when the first or last character is selected.

Typically, users can select any character individually within the result of a field in the document. This element, when present with a val attribute value of true (or equivalent), specifies that selecting the first or last character of that field result shall automatically result in the selection of the entire field.

[Example: Consider a WordprocessingML document which contains the following (with a field marked in gray shading):

Author **Tristan Davis** would like to welcome you.

The default presentation would allow the first character of that field to be selected:

Author **Tristan Davis** would like to welcome you.

However, if this compatibility setting is turned on:

```
<w:compat>
  <w:selectFldWithFirstOrLastChar />
</w:compat>
```

Then that selection would automatically result in the entire field being selected, resulting in the following:

Author **Tristan Davis** would like to welcome you.

*end example]*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

#### 14.7.3.35 *shapeLayoutLikeWW8* (Ignore Text Wrapping around Objects at Bottom of Page)

This element specifies that applications should ignore the line wrapping setting specified by a floating object, instead allowing text to be displayed beneath it under the specific set of conditions identified below.

Typically, text wrapping around a floating object is dictated by the presence of one of the following as a child element of the object's anchor element (Part 1, §20.4.2.3):

- *wrapNone* (Part 1, §20.4.2.15) element, which specifies no text wrapping
- *wrapSquare* (Part 1, §20.4.2.17) element, which specifies square text wrapping
- *wrapThrough* (Part 1, §20.4.2.18) element, which specifies through text wrapping
- *wrapTight* (Part 1, §20.4.2.19) element, which specifies tight text wrapping
- *wrapTopAndBottom* (Part 1, §20.4.2.19) element, which specifies top and bottom text wrapping

This element, when present with a *val* attribute value of *true* (or equivalent), specifies that applications shall allow text to wrap beneath a floating object, ignoring the object's true wrapping setting, when the following conditions are met:

- The floating object has any of the following elements present as a child of the object's anchor element: *wrapSquare*, *wrapTight*, or *wrapTopAndBottom*.
- The floating object has a *positionV* element (Part 1, §20.4.2.11) with a *relativeFrom* attribute value of *line*.
- The floating object has a negative value for the child *posOffset* element (Part 1, §20.4.2.12) of the *positionV* element.
- The paragraph containing the anchor element would appear directly after the previous paragraph if the wrapping settings were ignored.
- The paragraph containing the anchor element would be pushed to the next page if the wrapping settings were respected.

[Example: Consider a WordprocessingML document containing a DrawingML object which meets the conditions outlined above:

```
<w:p>
  <w:r>
    <w:t>Sample text. Sample text. Sample text. Sample text. Sample text. Sample
text.</w:t>
  </w:r>
  <w:r>
    <w:drawing>
      <wp:anchor ... >
        <wp:positionV relativeFrom="line">
          <wp:posOffset>-428914</wp:posOffset>
        </wp:positionV>
```

```

<wp:wrapTopAndBottom />
...
</wp:anchor>
</w:drawing>
</w:r>
<w:r>
  <w:t> Sample text. Sample text. Sample text. Sample text. Sample text.
  Sample text.</w:t>
</w:r>
...
</w:p>

```

When the wrapping settings are respected, the shape and its paragraph do not fit on the page, so they are moved to the next page (the paragraph containing the anchor has been highlighted for illustrative purposes):



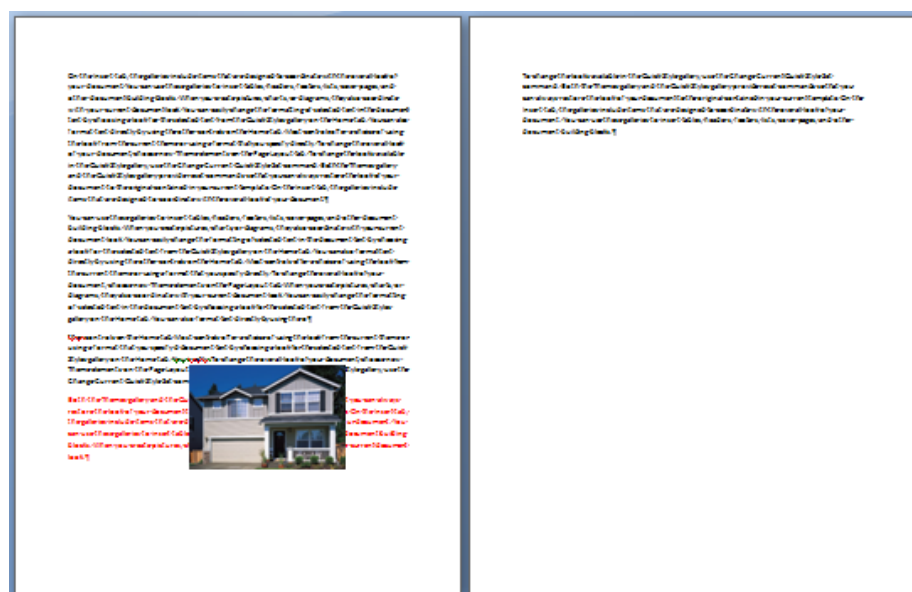
If this compatibility setting is turned on:

```

<w:compat>
  <w:shapeLayoutLikeWW8 />
</w:compat>

```

Then applications should ignore the wrapping setting and allow text to wrap below the object. This behaviour results in the following (again, the paragraph containing the anchor has been highlighted for illustrative purposes):



end example]

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

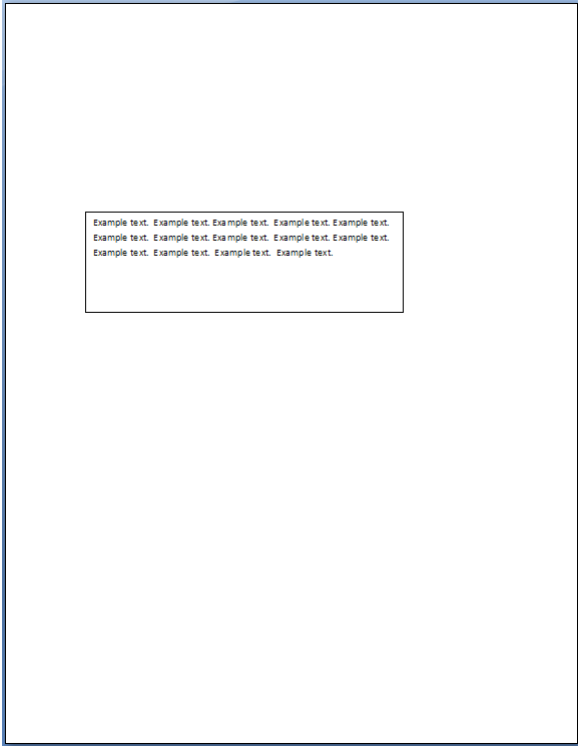
This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

#### 14.7.3.36 showBreaksInFrames (Display Page/Column Breaks Present in Frames)

This element specifies whether applications should honor the presence of page and/or column breaks which are present within the contents of paragraphs which have been defined as frames using the framePr element (Part 1, §17.3.1.11).

Typically, breaks within frames shall be ignored and shall have no effect on the display of the paragraph in which they are contained. This element, when present with a val attribute value of true (or equivalent), specifies that rather than completely ignoring these breaks, applications should display the break and move the remaining frame content, and all subsequent text, to the next page and/or column, as needed.

[Example: Consider a WordprocessingML document with a paragraph contained within a text frame:



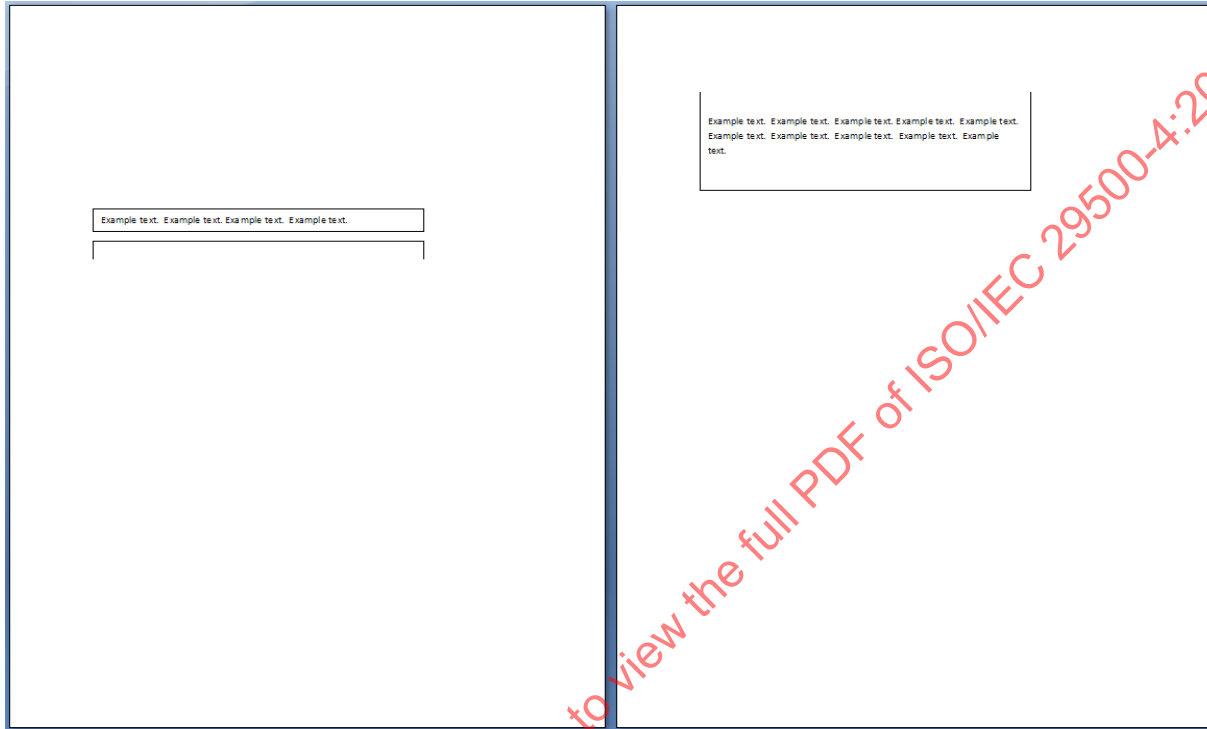
The default presentation would display the page break inline in the frame (breaking the frame into two) but would not actually break the page:



However, if this compatibility setting is turned on:

```
<w:compat>
  <w:showBreaksInFrames />
</w:compat>
```

Then the page breaks is used even though they are present in the frame, breaking the page and resulting in the following output:



*end example]*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

#### 14.7.3.37 **spacingInWholePoints (Only Expand/Condense Text By Whole Points)**

This element specifies how applications should apply text expansion/compression defined using the spacing element (Part 1, §17.3.2.35) within a set of run properties.

Typically, as defined in the spacing element, text within runs in a WordprocessingML document can be expanded or compressed in increments of twentieths of a point. This element, when present with a `val` attribute value of `true` (or equivalent), specifies that the expansion and compression of text shall only be performed in increments of points. Any value which is not equal to an expansion or compression of a whole point shall be rounded down to the nearest whole point when the text is expanded/compressed within the WordprocessingML document.

[Example: Consider a WordprocessingML document with three paragraphs of text, each expanded by a varying amount, as follows:

```
<w:p>
...
<w:r>
  <w:t>This is text.</w:t>
</w:r>
</w:p>
<w:p>
...
<w:r>
  <w:rPr>
    <w:spacing w:val="20" />
  </w:rPr>
  <w:t>This is text.</w:t>
</w:r>
</w:p>
<w:p>
...
<w:r>
  <w:rPr>
    <w:spacing w:val="36" />
  </w:rPr>
  <w:t>This is text.</w:t>
</w:r>
</w:p>
```

The default presentation would have each run of text expanded exactly as requested:

Regular Text:      This is text.

Text expanded by 1 point:      This is text.

Text expanded by 1.8 points:      This is text.

However, if this compatibility setting is turned on:

```
<w:compat>
  <w:spacingInWholePoints />
</w:compat>
```

Then the third line - with an expansion of 1.8 points - would instead be rounded down to the nearest whole number of points when expanded, resulting in the following output:



Regular Text:                      This is text.

Text expanded by 1 point:      This is text.

Text expanded by 1.8 points:   This is text.

In the resulting output, the second and third lines are identical, as the third line has a next expansion of exactly one point. *end example*]

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

#### 14.7.3.38 `splitPgBreakAndParaMark` (Always Move Paragraph Mark to Page after a Page Break)

This element specifies whether a page break shall automatically complete the line on which it appears, moving the end of the paragraph to a new line on the next page, or if it shall behave as true run-level content within its current paragraph.

Typically, a page break defined using the `br` element (Part 1, §17.3.3.1) is treated as run-level content, which means that although it delimits the end of the page, if there is no content after it within the current paragraph, that the paragraph shall also end on that page. This element, when present with a `val` attribute value of `true` (or equivalent), specifies that a page break shall always immediately end the current page, moving the paragraph mark which delimits the end of its parent paragraph to a new line on the next page.

Note that this setting only affects the case where there is no run-level content after the page break within the paragraph - if any further run content appears in the paragraph it shall appear on subsequent lines on the next page.

[*Example*: Consider a WordprocessingML document with two paragraphs of content - the first ending with a page break:

```
<w:p>
  <w:r>
    <w:t>This is text before a page break.</w:t>
    <w:br w:type="page" />
  </w:r>
</w:p>
<w:p>
  <w:r>
    <w:t>This is text on the next page.</w:t>
  </w:r>
</w:p>
```

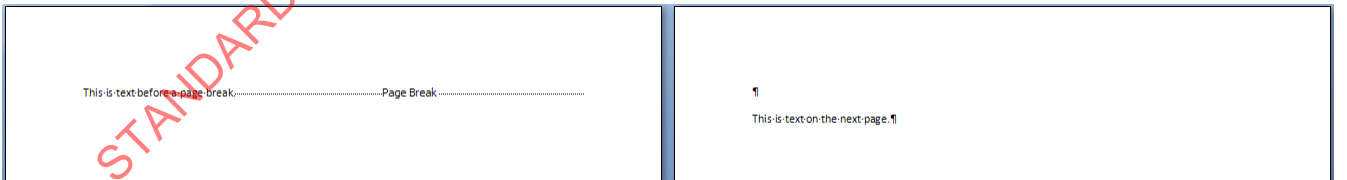
The default presentation would have the text content *This is text on the next page.* as the first line of the second page, as there is no run content after the page break in paragraph one, and therefore no need for a new line on page two (in this image, a graphical illustration of the pilcrow and the page break have been added for clarity):



However, if this compatibility setting is turned on:

```
<w:compat>
  <w:splitPgBreakAndParaMark />
</w:compat>
```

Then even though it is followed by no additional content, the page break must immediately end the first page, pushing the end of the first paragraph onto the first line of the second page, resulting in the following output:



*end example]*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

#### 14.7.3.39 subFontBySize (Require Exact Size During Font Substitution)

This element specifies whether applications shall accept fonts which cannot be rendered at the size specified by the sz (Part 1, §17.3.2.38) and/or szCs (Part 1, §17.3.2.39) elements on the parent run when performing font substitution.

Typically, applications can perform font substitution as defined in Part 1, §17.8.2, with no additional restrictions. This element, when present with a val attribute value of true (or equivalent), specifies that when a potential substitute font has been located, an application shall check whether that font is capable of displaying characters at the specified point size. If it is not, that font is not considered as a substitute font (i.e. it is rejected, and the next closest match is considered).

[*Example:* Consider a WordprocessingML document with a series of characters in an unavailable font. The default presentation would use any method used by the application to perform that font substitution.

However, if this compatibility setting is turned on:

```
<w:compat>
  <w:subFontBySize />
</w:compat>
```

For each run, the application determines if the substitute font produced by its font substitution algorithm can be displayed at the size specified by the run's sz and/or szCs elements. If it cannot, that font is not used and the next closest match as substitute font is considered. *end example*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

#### 14.7.3.40 suppressBottomSpacing (Ignore Exact Line Height for Last Line on Page)

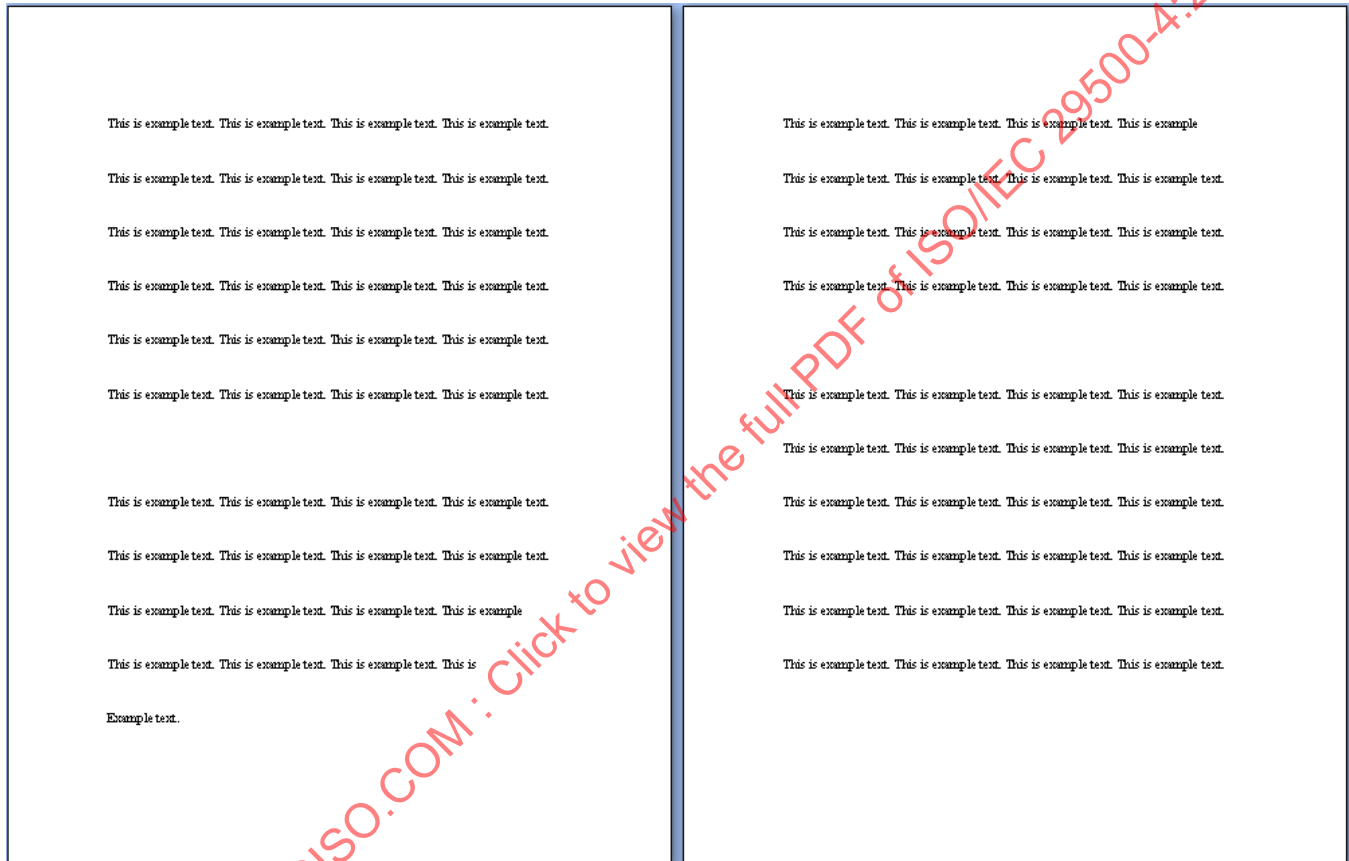
This element specifies whether an exact line height specified using the spacing element (Part 1, §17.3.1.33) with a lineRule attribute value of exact shall be ignored for the last line on each page.

Typically, if an exact line height has been specified using the spacing element, then all lines within that paragraph have the necessary line spacing added to them in order to meet this constraint. This element, when present with a val attribute value of true (or equivalent), specifies that no additional spacing shall be added below the last line on each page as a result of these line spacing requirements - a line shall be placed on the bottom of the page if its characters fit on that page ignoring the necessary space after.

[*Example:* Consider a WordprocessingML document whose first paragraph has a line spacing setting requiring exactly 48 points of space per line:

```
<w:p>
  <w:pPr>
    <w:spacing w:line="960" w:lineRule="exact" />
  </w:pPr>
  ...
</w:p>
```

The default presentation would have the necessary amount of space added between each line such that all lines in the paragraph are centered within 48 points of spacing:



However, if this compatibility setting is turned on:

```
<w:compat>
  <w:suppressBottomSpacing />
</w:compat>
```

Then that constraint must be lifted for the last line on the page (although all other lines are unaffected), resulting in the following output:

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

14.7.3.41 `suppressSpacingAtTopOfPage` (Ignore Minimum Line Height for First Line on Page)

Typically, if a minimum line height has been specified using the spacing element, then all lines within that paragraph have the necessary line spacing added to them in order to meet this constraint. This element, when present with a val attribute value of true (or equivalent), specifies that no additional spacing shall be added above the first line on each page as a result of this line spacing requirements - the top of the text characters on the first line shall be at the top edge of the page.

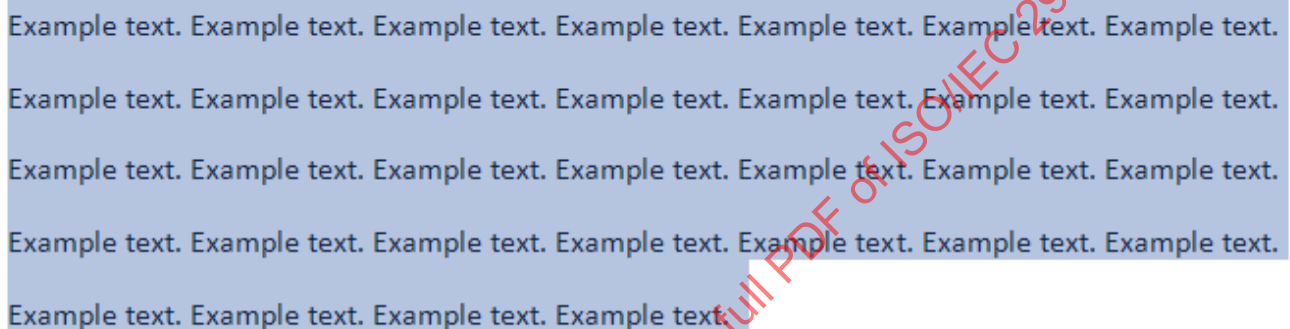
©ISO/IEC 2011 – All rights reserved

```

<w:p>
  <w:pPr>
    <w:spacing w:line="500" w:lineRule="atLeast" />
  </w:pPr>
  ...
</w:p>

```

The default presentation would have the necessary amount of space added between each line such that all lines in the paragraph are centered within 25 points of spacing (highlighting has been added to the image below in order to illustrate the additional spacing above the first line):



Example text. Example text. Example text. Example text. Example text. Example text. Example text. Example text.

Example text. Example text. Example text. Example text. Example text. Example text. Example text. Example text.

Example text. Example text. Example text. Example text. Example text. Example text. Example text. Example text.

Example text. Example text. Example text. Example text. Example text. Example text. Example text. Example text.

Example text. Example text. Example text. Example text.

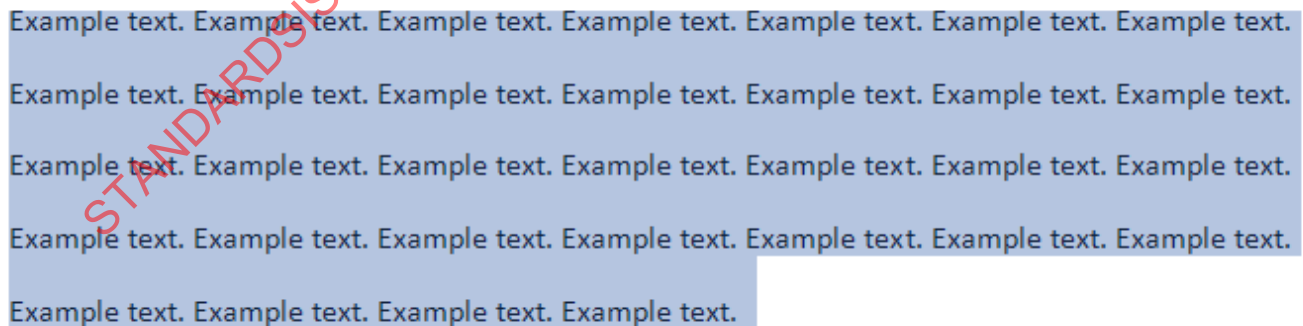
However, if this compatibility setting is turned on:

```

<w:compat>
  <w:suppressSpacingAtTopOfPage />
</w:compat>

```

Then no additional line spacing must be added above the first line on the page (although all other lines are unaffected), resulting in the following output:



Example text. Example text. Example text. Example text. Example text. Example text. Example text. Example text.

Example text. Example text. Example text. Example text. Example text. Example text. Example text. Example text.

Example text. Example text. Example text. Example text. Example text. Example text. Example text. Example text.

Example text. Example text. Example text. Example text. Example text. Example text. Example text. Example text.

Example text. Example text. Example text. Example text.

However, if this line spacing constraint was exactly 25 points, then this setting would have no effect:

Example text. Example text. Example text. Example text. Example text. Example text. Example text.  
 Example text. Example text. Example text. Example text. Example text. Example text. Example text.  
 Example text. Example text. Example text. Example text. Example text. Example text. Example text.  
 Example text. Example text. Example text. Example text. Example text. Example text. Example text.  
 Example text. Example text. Example text. Example text.

*end example]*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

#### 14.7.3.42 suppressSpBfAfterPgBrk (Do Not Use Space Before On First Line After a Page Break)

This element specifies that applications should not postpone any before paragraph spacing to the first line containing content after a page break.

Typically, a page break defined using the br element (Part 1, §17.3.3.1) is treated as run-level content, which means that although it delimits the end of the page, if there is no content after it within the current paragraph, that the paragraph shall also end on that page. However, in the case where there is additional run-level content within the same paragraph, that content, although part of the same paragraph as the page break, is displayed on the following page.

This leads to a situation where the only run content on the page with the page break is the break itself, with all subsequent content on the following page. In this case, applications shall apply the value specified by the spacing element's before attribute to the first line on the new page (since it is ostensibly the only page with content in that paragraph).

This element, when present with a val attribute value of true (or equivalent), specifies the paragraph before spacing shall not be 'postponed' in this way - if the line with the page break has no content, then the spacing element's before attribute is simply ignored.

[Example: Consider a WordprocessingML document whose first paragraph specifies that it must be preceded by 50 points of additional spacing:

```

<w:p>
  <w:pPr>
    <w:spacing w:before="1000" />
  </w:pPr>
  <w:r>
    <w:br w:type="page" />
    <w:t>This is sample text with 50 points before formatting.</w:t>
  </w:r>
</w:p>

```

The default presentation would have the necessary amount of space added to the first line on the second page, as the page break was not preceded by any run content (highlighting has been added to the image below in order to illustrate the additional spacing above the first line):



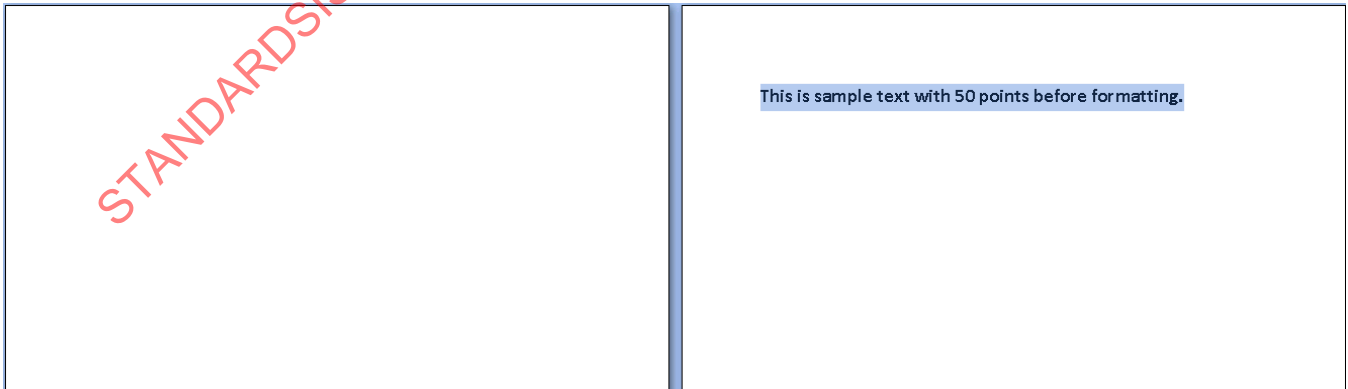
However, if this compatibility setting is turned on:

```

<w:compat>
  <w:suppressSpBfAfterPgBrk />
</w:compat>

```

Then the spacing must not be added above the first line on the page (it is essentially ignored), resulting in the following output:



*end example]*



| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

#### 14.7.3.43 `suppressTopSpacing` (Ignore Minimum and Exact Line Height for First Line on Page)

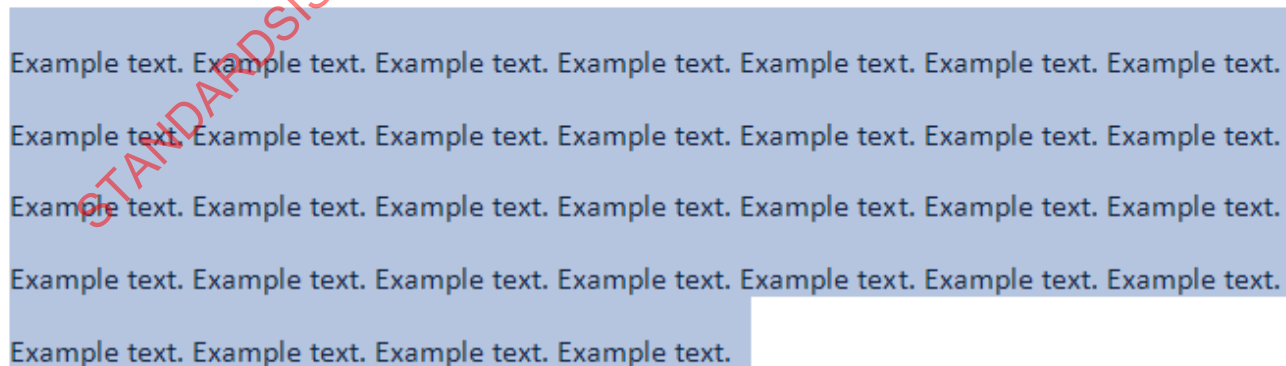
This element specifies whether the minimum line height specified using the spacing element (Part 1, §17.3.1.33) with a `lineRule` attribute value of `atLeast` or `exact` shall be ignored for the first line on each page.

Typically, if a minimum or exact line height has been specified using the spacing element, then all lines within that paragraph have the necessary line spacing added to them in order to meet this constraint. This element, when present with a `val` attribute value of `true` (or equivalent), specifies that no additional spacing shall be added above the first line on each page as a result of these line spacing requirements - the top of the text characters on the first line shall be at the top edge of the page.

[*Example:* Consider a WordprocessingML document whose first paragraph has a line spacing setting requiring exactly 25 points of space per line:

```
<w:p>
  <w:pPr>
    <w:spacing w:line="500" w:lineRule="exact" />
  </w:pPr>
  ...
</w:p>
```

The default presentation would have the necessary amount of space added between each line such that all lines in the paragraph are centered within 25 points of spacing (highlighting has been added to the image below in order to illustrate the additional spacing above the first line):



Example text. Example text. Example text. Example text. Example text. Example text. Example text.  
 Example text. Example text. Example text. Example text. Example text. Example text. Example text.  
 Example text. Example text. Example text. Example text. Example text. Example text. Example text.  
 Example text. Example text. Example text. Example text. Example text. Example text. Example text.  
 Example text. Example text. Example text. Example text.

However, if this compatibility setting is turned on:

```
<w:compat>
  <w:suppressTopSpacing />
</w:compat>
```

Then no additional line spacing must be added above the first line on the page (although all other lines are unaffected), resulting in the following output:

Example text. Example text. Example text. Example text. Example text. Example text. Example text.  
Example text. Example text. Example text. Example text. Example text. Example text. Example text.  
Example text. Example text. Example text. Example text. Example text. Example text. Example text.  
Example text. Example text. Example text. Example text. Example text. Example text. Example text.  
Example text. Example text. Example text. Example text.

*end example]*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

**14.7.3.44 suppressTopSpacingWP (Use Static Text Leading)**

(The terms *baseline to baseline distance* and *unitsPerEm*, used below, are defined in ISO/IEC 14496-22.)

This element specifies that applications should use the values defined below to calculate the baseline to baseline distance (BTBD) in this document. This can result in lines appearing slightly condensed vertically.

Without this setting, applications calculate baseline to baseline distance using the metrics defined by ISO/IEC 14496-22. This element, when present with a *val* attribute value of *true* (or equivalent), specifies that applications should calculate this as follows:

$$BTBD = \text{unitsPerEm} + 2\text{pt}$$

[*Example*: If this compatibility setting is turned on:

```
<w:compat>
  <w:suppressTopSpacingWP />
</w:compat>
```

Then applications use a baseline to baseline distance as calculated before. With a 16 point font, this would result in a baseline to baseline distance of 18 points. *end example]*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

#### 14.7.3.45 swapBordersFacingPages (Swap Paragraph Borders on Odd Numbered Pages)

This element specifies whether left and right paragraph borders defined under the pBdr element (Part 1, §17.3.1.24) shall be swapped under conditions where it is possible that the those pages are intended to be used to create a book-like publication.

Typically, no changes shall be made to the positions of paragraph borders defined under the pBdr element - a right border is always on the right, and a left border is always on the left. This element, when present with a val attribute value of true (or equivalent), specifies that under the two following conditions:

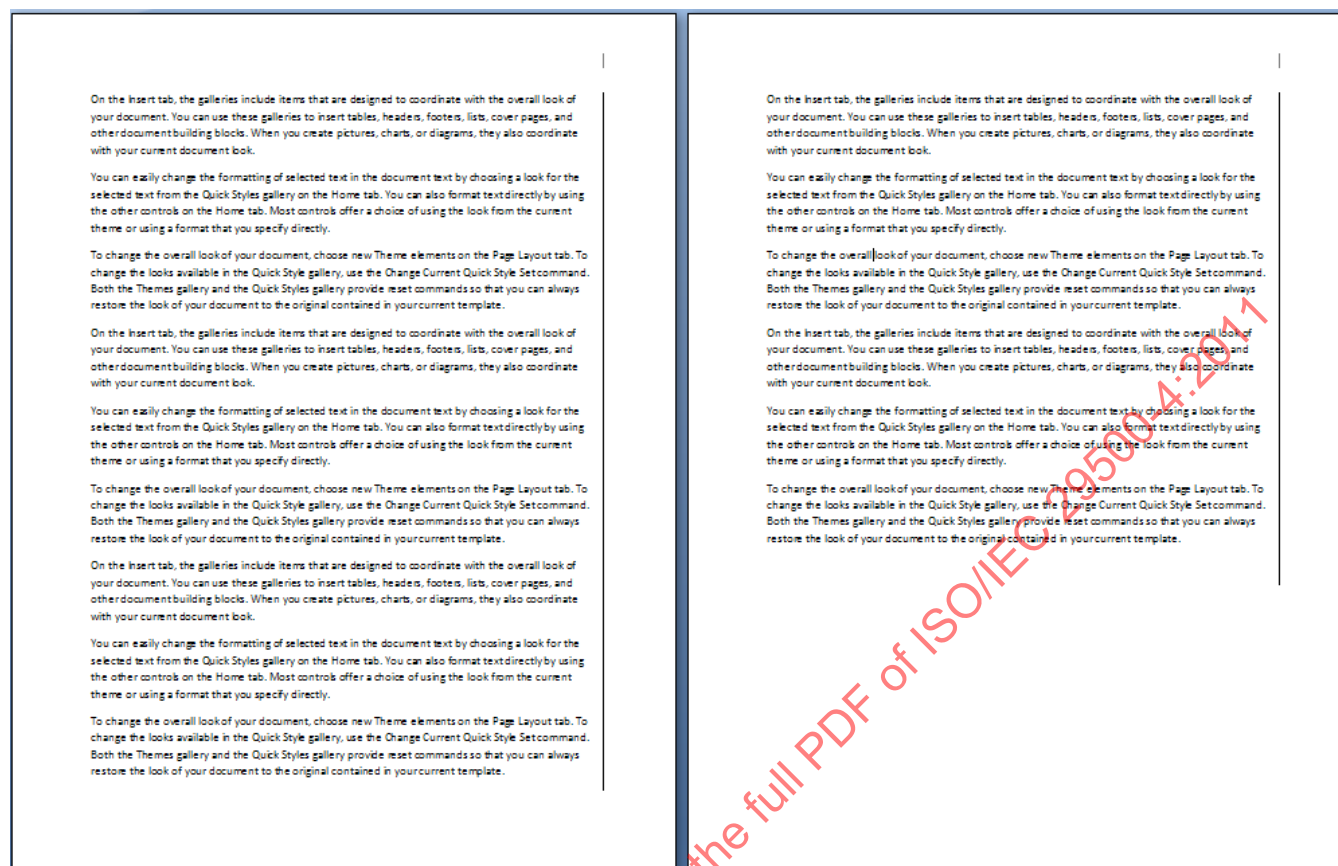
- The margins in this document are mirrored using the mirrorMargins element (Part 1, §17.15.1.57)
- The header/footers in this document are different on even and odd numbered pages using the evenAndOddHeaders element (Part 1, §17.10.1)

That paragraph borders on odd-numbered pages are swapped - that is, left borders shall be displayed on the right and right borders shall be displayed on the left.

[Example: Consider a WordprocessingML document for which the mirrorMargins element is present, and whose default paragraph style includes a paragraph border to be displayed on the right side of each paragraph:

```
<w:style w:type="paragraph" w:default="1" w:styleId="Normal" >
...
<w:pPr>
  <w:pBdr>
    <w:right w:val="single" w:color="auto" />
  </w:pBdr>
...
</w:pPr>
</w:style>
```

If a two-page document is created using this default paragraph style, then all paragraphs has a border on the right side, as follows:



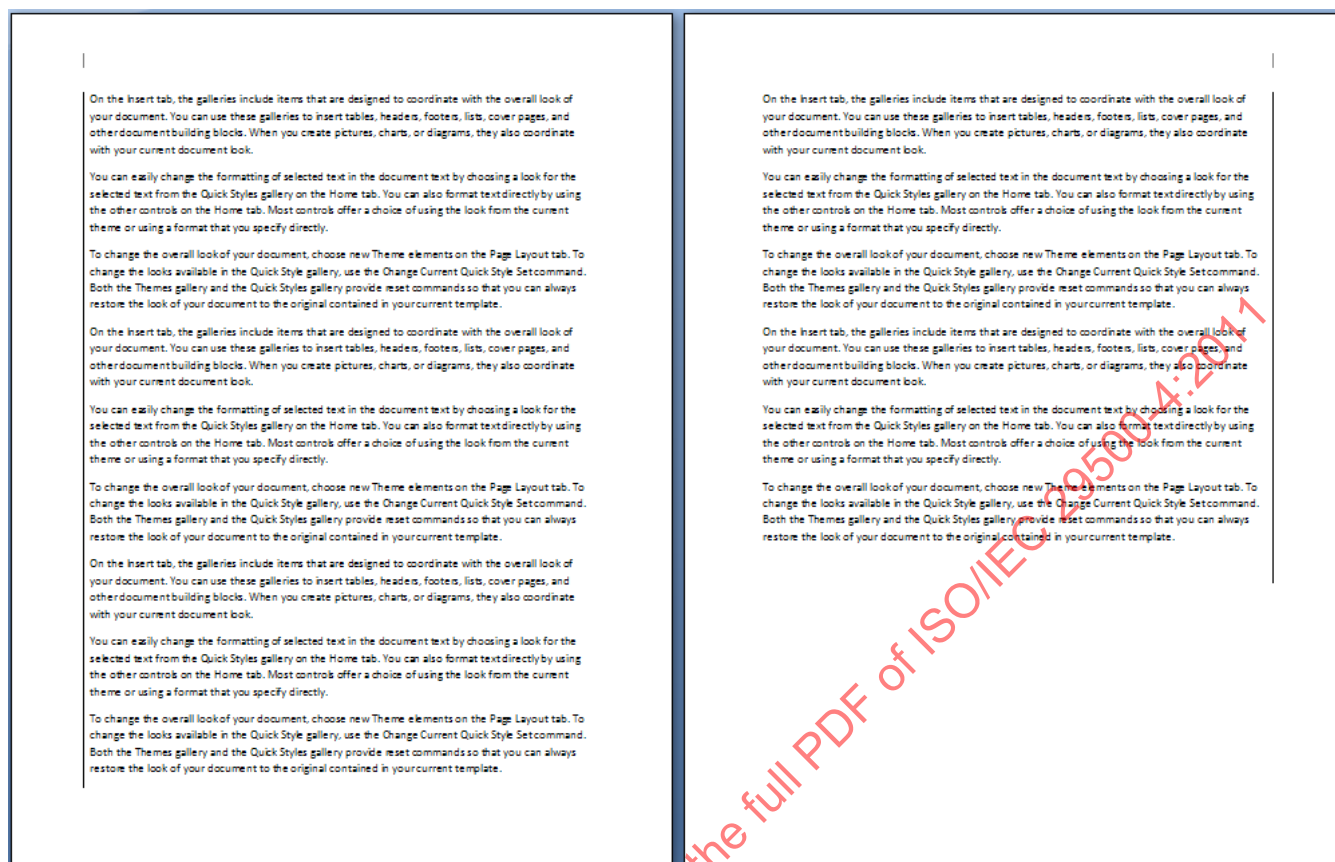
However, if this compatibility setting is turned on:

```
<w:compat>
```

```
<w:swapBordersFacingPages />
```

```
</w:compat>
```

Then the borders on the first page (being an odd-numbered page) must be swapped, resulting in the following output:



*end example]*

#### Parent Elements

compat (Part 1, §17.15.1.21)

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

#### 14.7.3.46 truncateFontHeightsLikeWP6 (Use Truncated Integer Division For Font Calculation)

This element specifies that applications should perform a specific method of calculation when converting font heights, specified in points using the `sz` (Part 1, §17.3.2.38) and `szCs` (Part 1, §17.3.2.39) elements, into pixels. This algorithm often results in a smaller than typical visual appearance of text for a given point size.

Typically, applications convert points to pixels using any approximate mathematical conversion mechanism (often, rounded integer division). This element, when present with a `val` attribute value of `true` (or equivalent), specifies that applications should use truncated integer division when performing this conversion (any non-integer value is truncated to determine the integer value resulting from the conversions).

[*Example:* If this compatibility setting is turned on:

```
<w:compat>
  <w:truncateFontHeightsLikeWP6 />
</w:compat>
```

Then applications shall use truncated integer division when calculating the height of characters.

For example, if the conversion is done as follows:

$$sz_{px} = sz_{pt} * N \frac{px}{inch} * \frac{1 inch}{72 pt}$$

where:

- $sz_{pt}$  = size in points
- $sz_{px}$  = size in pixels
- $N$  = resolution in pixels per inch

Converting a 14 point font on a 96 dpi device results in  $sz_{px} = 14 * 96 * \frac{1}{72} = 18\frac{2}{3} px$ . If this setting is on, the result is truncated and the font is displayed using 18 pixels, even though 19 would be closer to the actual value. *end example*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

**14.7.3.47 underlineTabInNumList (Underline Following Character Following Numbering)**

This element specifies whether applications shall underline the character following the numbering defined using the suff element (Part 1, §17.9.29) when both the numbering itself and the first letter of the corresponding numbered paragraph is underlined.

Typically, the tab or space character generated between numbering and the corresponding paragraph of text is never formatted, since it is automatically generated by the suff element. This element, when present with a val attribute value of true (or equivalent), specifies that the tab or space shall be underlined the same way as the numbering symbol itself in the following conditions:

- The numbering is underlined
- The first character of the paragraph is underlined

[Example: Consider a WordprocessingML document with two numbered paragraphs: one with underlined text and the other without. The default presentation would have the tab characters free of underlining in both cases:

1. Example Text2. Example Text

However, if this compatibility setting is turned on:

```
<w:compat>
  <w:underlineTabInNumList />
</w:compat>
```

Then the second paragraph meets the criteria defined above for having the suffix character underlined, resulting in the following output:

1. Example Text2. Example Text

*end example]*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

#### 14.7.3.48 useAltKinsokuLineBreakRules (Use Alternate Set of East Asian Line Breaking Rules)

This element specifies an alternate set of characters which can be used to determine which characters can begin and/or end a line when kinsoku line breaking rules are enabled using the kinsoku element (Part 1, §17.3.1.16).

Typically, the characters used to determine which characters shall not end a line are those listed by the kinsoku element in the paragraph properties subclause of this document. This element, when present with a val attribute value of true (or equivalent), specifies that the following settings shall be used instead (for brevity, only those settings which are different are listed below):

Chinese (Simplified)

- Cannot start a line:

!,.,:;?]}~—||"…:、。〃々>》」』】〕！" ' ) , . : ; ? ] ` | } ~ ¢

- Cannot end a line:

{{““ < 《 「 『 【 〔 〔 ( . [ { £ ¥

Chinese (Traditional)

- Cannot start a line:  
! , . : ; ? | } ,

Korean

- Cannot end a line:  
( [ { ₩

[Example: Consider a line of text in a WordprocessingML document within a paragraph marked as Chinese (Simplified) which begins with a % symbol, as follows:

%...

Typically, the kinsoku settings for Chinese (Simplified) do not allow this character to begin a line, so the character before that symbol would be moved down onto this line:

[%...

However, if this compatibility setting is turned on:

```
<w:compat>
  <w:useAltKinsokuLineBreakRules />
</w:compat>
```

Then the alternate kinsoku rules are in place, which do not prevent the % character from beginning the new line, resulting in the following output:

%...

*end example]*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

14.7.3.49 useAnsiKerningPairs (Use ANSI Kerning Pairs from Fonts)

This element specifies whether applications shall use the ANSI or Unicode kerning pair information from fonts stored in the document when displaying those characters within the document's contents.

Typically, applications shall use the Unicode kerning pair information in order to determine all possible kerning pairs in the fonts in use. This element, when present with a val attribute value of true (or equivalent), specifies that the ANSI kerning information shall be used instead.



[*Example:* Consider a WordprocessingML document with text that contains one or more kerning pairs.

If this compatibility setting is turned on:

```
<w:compat>
  <w:useAnsiKerningPairs />
</w:compat>
```

Then the ANSI kerning pairs are used in place of the Unicode kerning pairs, potentially resulting in different line breaks.

*end example]*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

#### 14.7.3.50 useFELayout (Do Not Bypass East Asian/Complex Script Layout Code)

This element specifies that applications shall not bypass code relating to the layout of East Asian and/or Complex Script characters when presenting this document.

[*Guidance:* Previous word processing applications relied on this flag to determine whether to perform functions which allow for the correct layout of East Asian and Complex Script text. Although current applications no longer rely on this flag (as they should correctly use the Unicode subranges and code pages of the text in use), this flag should be output in order to ensure that files with this content can be viewed correctly in previous word processors. *end guidance]*

[*Example:* Consider a WordprocessingML document with East Asian text.

If this compatibility setting is turned on:

```
<w:compat>
  <w:useFELayout />
</w:compat>
```

Then the flag is set telling previous applications that East Asian content is present, and they should display the document accordingly. *end example]*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

#### 14.7.3.51 useNormalStyleForList (Do Not Automatically Apply List Paragraph Style To Bulleted/Numbered Text)

This element specifies whether applications shall automatically apply the paragraph style with the styleId attribute ListParagraph when numbering is applied to a paragraph currently formatted using the default paragraph style.

Typically, when a paragraph is formatted using the default paragraph style, and numbering is subsequently applied, the paragraph style with the styleId attribute ListParagraph when numbering is applied to ensure that paragraph properties are appropriate for a numbered paragraph. This element, when present with a val attribute value of true (or equivalent), specifies that no alternate paragraph style shall ever be applied

[Example: Consider a WordprocessingML document with five unnumbered paragraphs:

Example text.

Example text.

Example text.

Example text.

Example text.

If numbering is applied to the three center paragraphs, the default presentation would have the ListParagraph style applied as well:

Example text.

- Example text.
- Example text.
- Example text.

Example text.

However, if this compatibility setting is turned on:

```
<w:compat>
  <w:useNormalStyleForList />
</w:compat>
```

Then the new paragraph style must not be applied, resulting in the following output:

Example text.

- Example text.
- Example text.
- Example text.

Example text.

*end example]*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

#### 14.7.3.52 usePrinterMetrics (Use Printer Metrics To Display Documents)

This element specifies whether applications shall use the printer metrics of the currently active printer when determining how to display the contents of a WordprocessingML document. *Printer metrics* are printer-specific settings which can be queried to tell an application how and where text shall be displayed on a printed page.

Typically, applications display the content of a document in a device independent manner - the application is therefore not changing the layout of a document based on the currently attached printer, and instead shall dictate to the printer where characters shall be presented on the page when printed. This element, when present with a val attribute value of true (or equivalent), specifies that the metrics of the current printer shall be used to display the document instead.

Specifically, when this setting is enabled, the printer metrics are used to determine the number of pixels per logical inch along the screen width and height. This should then be used to compute the pixel height of the fonts requested when displaying the document, as well as to scale between any logical units within the document (e.g. drawing object sizes) to the appropriate device units. Those units would then need to be scaled back into screen units for final display to a screen, but not scaled again when displayed to a printer.

[Note: On the Windows platform, you can use the GetDeviceCaps function to retrieve device-specific information for the specified printer. For this specific setting, you can use GetDeviceCaps(hdc, LOGPIXELSX) and GetDeviceCaps(hdc, LOGPIXELSY) with a printer DC to retrieve the number of pixels per logical inch along the screen width and height. With this, you can then use those DPI metrics to compute a pixel value for the font request in the LOGFONT structure (the LOGFONT structure defines the attributes of a font). A common formula to do this is  $S_{px} = S_{pts} * \frac{LOGPIXELSY}{72}$ . *end note]*

[Example: Consider a WordprocessingML document. The default must use device-independent layout to present the contents of the page.

However, if this compatibility setting is turned on:

```
<w:compat>
  <w:usePrinterMetrics />
</w:compat>
```

Then the printer metrics of the current active printer must be used to determine the display of the contents of the document instead, as needed. *end example*]

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

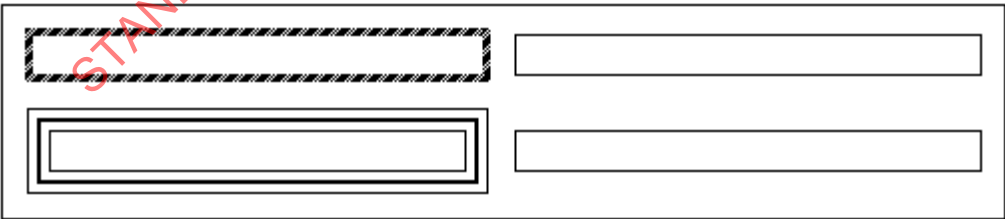
14.7.3.53 **useSingleBorderforContiguousCells (Use Simplified Rules For Table Border Conflicts)**

This element specifies whether applications should use an alternate simplified algorithm when handling conflicts between adjacent table borders within a table.

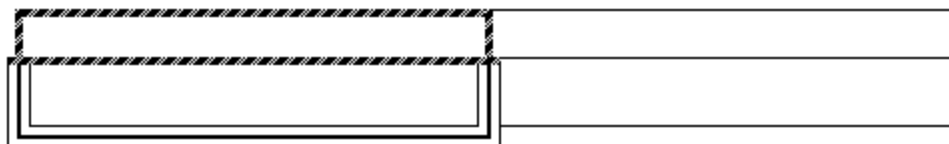
Typically, the conflicts between two adjacent table borders are handled using the conflict resolution algorithm defined in Part 1, §17.4.39 of ISO/IEC 29500. This element, when present with a val attribute value of true (or equivalent), specifies that rather than using that algorithm to determine the outcome of the conflict to two adjacent borders, that the following logic shall be used instead:

- Cell borders shall supersede table borders
- Cell borders to the right shall supersede cell borders to the left (i.e. the rightmost border wins in conflicts between vertical borders)
- Cell borders below shall supersede cell borders above (i.e. the bottommost border wins in conflicts between horizontal borders)

[Example: Consider a WordprocessingML document with cell and table borders defined as follows. In the image below, 0.1" of padding has been added between each cell temporarily to clearly illustrate the borders on each cell and on the table:



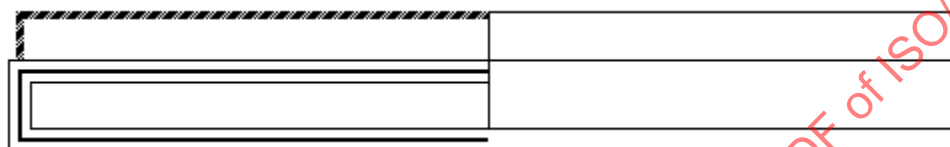
The default presentation would have the border conflicts resolved using the algorithm defined by ISO/IEC 29500, resulting in the following table:



However, if this compatibility setting is turned on:

```
<w:compat>
  <w:useSingleBorderforContiguousCells />
</w:compat>
```

Then the simplified table algorithm above shall be used instead (bottom and right cell borders always win), resulting in the following output:



*end example]*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

#### 14.7.3.54 useWord2002TableStyleRules (Incorrectly Display Top Border of Conditional Columns)

This element specifies whether applications should incorrectly calculate the top border of conditional columns (as specified by a tblStylePr element (Part 1, §17.7.6.6) with a type attribute value of firstCol, lastCol, band1Vert, or band2Vert) under the following conditions:

- A conditional formatting has also been defined for the first row (a tblStylePr element with a type attribute of firstRow)
- That conditional formatting has been applied to the table using the tblLook element (Part 1, §17.4.56)

Typically, table styles are applied according to the logic defined in Part 1, §17.7.2. This element, when present with a val attribute value of true (or equivalent), specifies that the top border of those conditionally formatted columns should instead be displayed as the top border of the following row.

[Example: Consider a WordprocessingML document with table style that defines two conditional formats:

The first column has a one point border

The first row has red shading

That style would be defined as follows:

```
<w:style w:type="table" w:customStyle="1" w:styleId="TableTest">
  <w:name w:val="CompatibilitySetting"/>
  <w:tblStylePr w:type="firstRow">
    <w:tcPr>
      <w:shd w:val="clear" w:color="auto" w:fill="FF0000"/>
    </w:tcPr>
  </w:tblStylePr>
  <w:tblStylePr w:type="firstCol">
    <w:tcPr>
      <w:tcBorders>
        <w:top w:val="single" w:sz="4" w:space="0" w:color="auto"/>
        <w:left w:val="single" w:sz="4" w:space="0" w:color="auto"/>
        <w:bottom w:val="single" w:sz="4" w:space="0" w:color="auto"/>
        <w:right w:val="single" w:sz="4" w:space="0" w:color="auto"/>
      </w:tcBorders>
    </w:tcPr>
  </w:tblStylePr>
</w:style>
```

If the first column and first row formatting is applied, the table would appear as follows:

|     |     |
|-----|-----|
| 1,1 | 1,2 |
| 2,1 | 2,2 |

However, if this compatibility setting is turned on:

```
<w:compat>
  <w:useWord2002TableStyleRules />
</w:compat>
```

Then the condition described by this element causes the top border defined by the conditional format for the first column to be displayed as the top border for the second column, resulting in the following output:

|     |     |
|-----|-----|
| 1,1 | 1,2 |
| 2,1 | 2,2 |

*end example]*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

#### 14.7.3.55 useWord97LineBreakRules (Use Incorrect Inter-Character Spacing Rules)

This element specifies that applications should perform specific calculations (detailed below) when determining inter-character spacing under certain conditions. These calculations would not normally be considered correct.

Typically, the behaviors specified by the following elements are applied unconditionally:

- The autoSpaceDE (Part 1, §17.3.1.2) and autoSpaceDN (Part 1, §17.3.1.3) elements
- The topLinePunct (Part 1, §17.3.1.43) element

The compatibility element described in this subclause, when present with a val attribute value of true (or equivalent), specifies that applications should ignore the settings listed above in the following scenarios:

1. If an ideographic character and a non-ideographic/numeric character are logically adjacent (ignoring all content which is not within a t element), but separated by a field boundary, i.e.:
  - The first character is within a fldSimple element, but the second is not.
  - The characters are separated by a fldChar element with a fldCharType attribute value of end

Then any appropriate inter-character spacing should be omitted. [*Note: Inter-character spacing should still be calculated correctly within the field result. end note*]

2. If a full-width punctuation character appears at the start of a paragraph which also specifies numbering via the numPr element (Part 1, §17.3.1.19), the compression specified by the topLinePunct element is ignored.

[*Example: Consider a paragraph which contains a field ending in an ideograph and another paragraph, with numbering, which contains a full-width punctuation character in the first character position:*

```
<w:p>
  <w:r>
    <w:fldChar w:fldCharType="begin" />
  </w:r>
  ...
  <w:r>
    <w:t>日</w:t>
  </w:r>
  <w:r>
    <w:fldChar w:fldCharType="end" />
```

```

</w:r>
<w:r>
  <w:t>1</w:t>
</w:r>
</w:p>
<w:p>
  <w:pPr>
    <w:numPr>
      ...
    </w:numPr>
  </w:pPr>
  <w:r>
    <w:t> (</w:t>
  </w:r>
</w:p>

```

Typically, if both the autoSpaceDN and topLinePunct are true, additional spacing is added after the ideograph in the first paragraph and punctuation kerning is applied in the second paragraph (with gridlines added for visual reference):

|    |    |   |    |   |    |   |   |
|----|----|---|----|---|----|---|---|
| 平成 | 19 | 年 | 12 | 月 | 20 | 日 | 1 |
| 1. | (  |   |    |   |    |   |   |

If this compatibility setting is turned on:

```

<w:compat>
  <w:useWord97LineBreakRules />
</w:compat>

```

Then applications should not add any inter-character spacing at the end of the field and should turn off punctuation kerning in the second paragraph:

|    |    |   |    |   |    |   |   |
|----|----|---|----|---|----|---|---|
| 平成 | 19 | 年 | 12 | 月 | 20 | 日 | 1 |
| 1. | (  |   |    |   |    |   |   |

*end example]*



| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

#### 14.7.3.56 wpJustification (Fit To Expanded Width When Performing Full Justification)

This element specifies that applications should perform a specific algorithm when determining the contents of each line in a fully justified paragraph (resulting from the use of the jc element (Part 1, §17.3.1.13)). This setting typically results in more words being fitted into lines (by reducing inter-word spacing as necessary).

Typically, applying full justification to a paragraph does not change the placement of line breaks, as inter-word spacing is expanded to ensure the resulting text is fully justified. This element, when present with a val attribute value of true (or equivalent), specifies that applications shall determine the contents of each line in a fully justified paragraph using the following algorithm:

For each line in the fully justified paragraph,

- Determine the actual line width,  $w$ , in pixels
- Calculate the “effective” line width by the following factor:

$$w_{\text{effective}} = w_{\text{actual}} + \left( w_{\text{actual}} * \frac{281}{7200} \right)$$

- Determine the text which can be displayed in a line of the “effective” line width
- Decrease the inter-word spacing as necessary to fit that text in the actual line width

[Example: Consider a WordprocessingML document with one or more paragraphs using full paragraph justification:

```
<w:p>
  <w:pPr>
    <w:jc w:val="both" />
  </w:pPr>
  ...
</w:p>
```

If this compatibility setting is turned on:

```
<w:compat>
  <w:wpJustification />
</w:compat>
```

Then, for a line 1000 pixels wide, an application would calculate the effective width as follows:

$$w_{\text{effective}} = 1000 + \left( 1000 * \frac{281}{7200} \right) = 1039 \text{ pixels}$$

This effective width is then used to determine how much text can be displayed on line. After calculating the text, the application can display the text on the actual line, fully justified. *end example*]

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

14.7.3.57      **wpSpaceWidth (Use Specific Space Width)**

(The terms *ascent* and *descent* are used as defined in ISO/IEC 14496-22.)

This element specifies that applications should perform determine the width of the space character for all proportional fonts used in this document using the calculation specified below.

Typically, applications calculate the width of a whitespace character dynamically to optimize for the output device. This element, when present with a *val* attribute value of *true* (or equivalent), specifies that applications should instead use the following algorithm to determine the width of a whitespace character:

$$w_{space} = \left( \frac{ascent + descent}{3} \right)$$

where

- $w_{space}$  is the width of a space character
- is the ascent for the font
- is the descent for the font

[*Example*: Consider a WordprocessingML document with this compatibility setting turned on:

```
<w:compat>
  <w:suppressTopSpacingWP />
</w:compat>
```

If the font applied to a run specified an ascent value of 8 points and a descent value of 2 points, each space in that run would have a width of three and one-third points. *end example*]

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element's content model is defined by the common boolean property definition in Part 1, §17.17.4.

#### 14.7.3.58 wrapTrailSpaces (Line Wrap Trailing Spaces)

This element specifies whether applications shall perform line wrapping on trailing spaces in the contents of a line when displaying in it a paragraph. *Trailing spaces* are all space characters which are not followed by non-space characters on the same line.

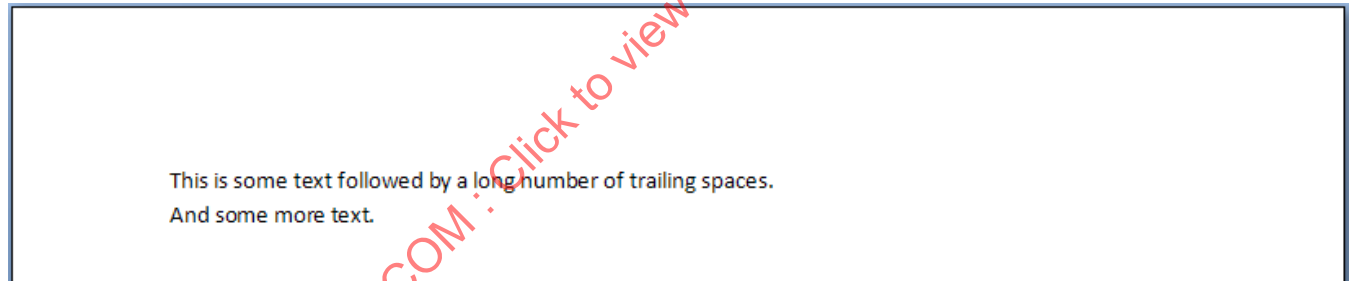
Typically, applications do not line wrap trailing spaces, instead allowing an unbounded number of trailing spaces on a line, with the next non-space character starting at the first character position on the next line. This element, when present with a `val` attribute value of `true` (or equivalent), specifies that all characters, including trailing spaces, shall be line wrapped normally.

[*Example:* Consider a WordprocessingML document with the following paragraph of text, including a long interstitial of spaces which become trailing spaces when the paragraph is displayed:

```
<w:r>
  <w:t> This is some text followed by a long number of trailing spaces.

      And some more text.</w:t>
</w:r>
```

The default presentation would not wrap those trailing spaces, so the text at the end of the run would begin at the first character position on the second line:

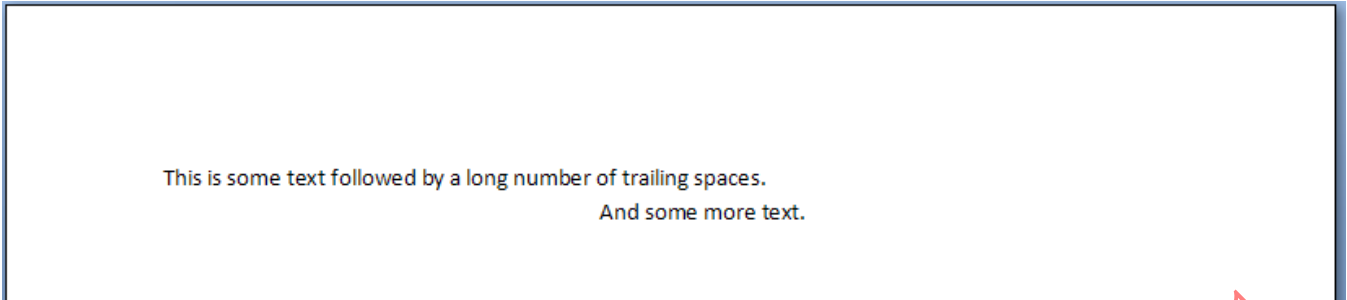


This is some text followed by a long number of trailing spaces.  
And some more text.

However, if this compatibility setting is turned on:

```
<w:compat>
  <w:wrapTrailSpaces />
</w:compat>
```

Then all trailing spaces would be handled as regular characters when line wrapping, resulting in the following output:



*end example]*

| Parent Elements              |
|------------------------------|
| compat (Part 1, §17.15.1.21) |

This element’s content model is defined by the common boolean property definition in Part 1, §17.17.4.

## 14.8 Miscellaneous Topics

### 14.8.1 Text Box Content

All VML-based drawing objects (except for connectors) support the addition of rich WordprocessingML content within their extents. When WordprocessingML contents have been added to a VML drawing object, the resulting text is contained within a *text box*.

When WordprocessingML content is contained within a text box, it is allowed within the object by specifying the VML textbox element (§19.1.2.22), which contains within it a single *txbxContent* element that contains all of the desired WordprocessingML content.

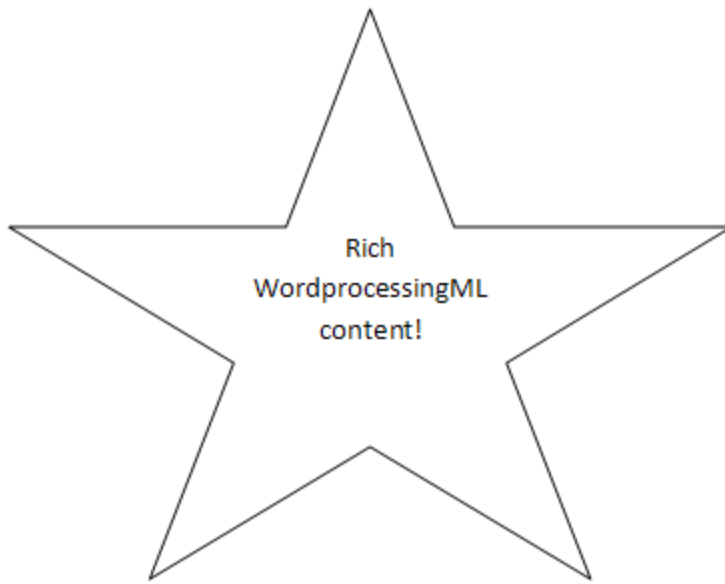
#### 14.8.1.1 *txbxContent* (Rich Text Box Content Container)

This element specifies that its contents shall be any rich WordprocessingML content, and that this content is the rich contents of a drawing object defined using the Vector Markup Language (VML) syntax (§19.1).

If this element contains within any of its contents any of the following content, then the document shall be considered non-conformant:

- References to other WordprocessingML document stories (comments, footnotes, endnotes)
- Additional *txbxContent* elements (as part of nested VML objects)

[*Example:* Consider a WordprocessingML document consisting of a single VML shape element (§19.1.2.19) (in this case, a star) that contains within it some WordprocessingML content:



That drawing object now contains a text box, and so uses the syntax for that text box:

```
<v:shape id="_x0000_s1026" type="#_x0000_t12" style="...">
  <v:textbox>
    <w:txbxContent>
      <w:p>
        <w:pPr>
          <w:jc w:val="center"/>
        </w:pPr>
        <w:r>
          <w:t>Rich WordprocessingML content!</w:t>
        </w:r>
      </w:p>
    </w:txbxContent>
  </v:textbox>
</v:shape>
```

The txbxContent element is the container for the WordprocessingML contained within the text box inside that shape - once inside this element any content (subject to the restrictions defined above) can be used. *end example*

| Parent Elements      |
|----------------------|
| textbox (§19.1.2.22) |

| Child Elements                                                                | Subclause           |
|-------------------------------------------------------------------------------|---------------------|
| altChunk (Anchor for Imported External Content)                               | Part 1, §17.17.2.1  |
| bookmarkEnd (Bookmark End)                                                    | Part 1, §17.13.6.1  |
| bookmarkStart (Bookmark Start)                                                | Part 1, §17.13.6.2  |
| commentRangeEnd (Comment Anchor Range End)                                    | Part 1, §17.13.4.3  |
| commentRangeStart (Comment Anchor Range Start)                                | Part 1, §17.13.4.4  |
| customXml (Block-Level Custom XML Element)                                    | Part 1, §17.5.1.6   |
| customXmlDelRangeEnd (Custom XML Markup Deletion End)                         | Part 1, §17.13.5.4  |
| customXmlDelRangeStart (Custom XML Markup Deletion Start)                     | Part 1, §17.13.5.5  |
| customXmlInsRangeEnd (Custom XML Markup Insertion End)                        | Part 1, §17.13.5.6  |
| customXmlInsRangeStart (Custom XML Markup Insertion Start)                    | Part 1, §17.13.5.7  |
| customXmlMoveFromRangeEnd (Custom XML Markup Move Source End)                 | Part 1, §17.13.5.8  |
| customXmlMoveFromRangeStart (Custom XML Markup Move Source Start)             | Part 1, §17.13.5.9  |
| customXmlMoveToRangeEnd (Custom XML Markup Move Destination Location End)     | Part 1, §17.13.5.10 |
| customXmlMoveToRangeStart (Custom XML Markup Move Destination Location Start) | Part 1, §17.13.5.11 |
| del (Deleted Run Content)                                                     | Part 1, §17.13.5.14 |
| ins (Inserted Run Content)                                                    | Part 1, §17.13.5.18 |
| moveFrom (Move Source Run Content)                                            | Part 1, §17.13.5.22 |
| moveFromRangeEnd (Move Source Location Container - End)                       | Part 1, §17.13.5.23 |
| moveFromRangeStart (Move Source Location Container - Start)                   | Part 1, §17.13.5.24 |
| moveTo (Move Destination Run Content)                                         | Part 1, §17.13.5.25 |
| moveToRangeEnd (Move Destination Location Container - End)                    | Part 1, §17.13.5.27 |
| moveToRangeStart (Move Destination Location Container - Start)                | Part 1, §17.13.5.28 |
| oMath (Office Math)                                                           | Part 1, §22.1.2.77  |
| oMathPara (Office Math Paragraph)                                             | Part 1, §22.1.2.78  |
| p (Paragraph)                                                                 | Part 1, §17.3.1.22  |
| permEnd (Range Permission End)                                                | Part 1, §17.13.7.1  |
| permStart (Range Permission Start)                                            | Part 1, §17.13.7.2  |
| proofErr (Proofing Error Anchor)                                              | Part 1, §17.13.8.1  |
| sdt (Block-Level Structured Document Tag)                                     | Part 1, §17.5.2.29  |
| tbl (Table)                                                                   | Part 1, §17.4.38    |

[Note: The W3C XML Schema definition of this element's content model ([CT\\_TxbxContent](#)) is located in §A.1.  
end note]

## 14.9 Fields and Hyperlinks

### 14.9.1 Syntax

This subclause modifies the fields grammar defined in Part 1, §17.16.1 as necessary to support transitional use of fields.

The syntax rules in this subclause follow the system shown in ISO/IEC 14977: literal text is surrounded by double-quotes (or by apostrophes); the left-square-bracket and right-square-bracket designate the start and end of an option; the left-curly-bracket and right-curly-bracket designate the start and end of a sequence of one-or-more items; the vertical-line indicates an alternative; and each rule ends with a semicolon. Whenever hyphen is used as the exception-symbol (as per ISO/IEC 14977), it is surrounded by white space, and further clarified by a comment.

```

field-type=
    date-and-time |
    document-automation |
    document-information |
    document-property |
    equations-and-formulas |
    index-and-tables |
    links-and-references |
    mail-merge |
    numbering |
    user-information |
    form-field |
    user-defined-field |
    transitional-fields ;
transitional-fields=
    "AUTONUM" |
    "AUTONUMGL" |
    "AUTONUMOUT" |
    "BARCODE", field-argument |
    "BIDIOUTLINE" |
    "EQ", [switches], "(", [eq-argument-list], ")" (* and see §14.9.4.6 *) |
    "INFO", info-category, [field-argument] ;
eq-argument-list=
    expression, {eq-list-separator, expression} ;
eq-list-separator=
    comma | semicolon ;          (* depending on the rules in §14.9.4.6 *)

```

info-category:

```
"AUTHOR" | "COMMENTS" | "CREATEDATE" | "EDITTIME" |
"FILENAME" | "FILESIZE" | "KEYWORDS" | "LASTSAVEDBY" |
"NUMCHARS" | "NUMPAGES" | "NUMWORDS" | "PRINTDATE" |
"REVNUM" | "SAVEDATE" | "SUBJECT" | "TEMPLATE" | "TITLE" ;
```

### 14.9.2 Legacy language references

Whenever a field requires a language identifier as one of its *field-switches*, that language identifier should be provided using the syntax defined by the ST\_Lang simple type (Part 1, §22.9.2.6). However, there exists a legacy mechanism by which language identifiers can be stored. For that mechanism, the following table lists those language codes and their corresponding languages.

This mechanism can be used within the following *field-switches*:

- ADDRESSBLOCK (Part 1, §17.16.5.1), \l switch
- BIBLIOGRAPHY (Part 1, §17.16.5.7), \l and \f switches
- CITATION (Part 1, §17.16.5.8), \l switch
- GREETINGLINE (Part 1, §17.16.5.24), \l switch
- INDEX (Part 1, §17.16.5.29), \z switch

[*Rationale*: This list is maintained for compatibility with documents containing these values. The use of these identifiers is discouraged. *end rationale*]

[*Note*: The second column "Description" is informative only, and is provided as an aid to implementers. Note also that the inclusion of country subtags in the BCP 47 codes makes no assertion about the relationship between nations and languages. Rather, it reflects the historical commercial process by which office software products were localized for some particular market. For example, the Swahili language is spoken in several Eastern African nations. However, the localization identified by the legacy language code 1089 reflected work done in Kenya to address the needs of Swahili users there and thus is mapped to the modern BCP 47 code sw-KE. *end note*]

| Language Code | Description (informative) | BCP 47 Code |
|---------------|---------------------------|-------------|
| 1025          | Arabic - Saudi Arabia     | ar-SA       |
| 1026          | Bulgarian                 | bg-BG       |
| 1027          | Catalan                   | ca-ES       |
| 1028          | Chinese - Taiwan          | zh-TW       |
| 1029          | Czech                     | cs-CZ       |
| 1030          | Danish                    | da-DK       |
| 1031          | German - Germany          | de-DE       |
| 1032          | Greek                     | el-GR       |
| 1033          | English - United States   | en-US       |



| Language Code | Description (informative)          | BCP 47 Code |
|---------------|------------------------------------|-------------|
| 1034          | Spanish - Spain (Traditional Sort) | es-ES       |
| 1035          | Finnish                            | fi-FI       |
| 1036          | French - France                    | fr-FR       |
| 1037          | Hebrew                             | he-IL       |
| 1038          | Hungarian                          | hu-HU       |
| 1039          | Icelandic                          | is-IS       |
| 1040          | Italian - Italy                    | it-IT       |
| 1041          | Japanese                           | ja-JP       |
| 1042          | Korean                             | ko-KR       |
| 1043          | Dutch - Netherlands                | nl-NL       |
| 1044          | Norwegian (Bokmål)                 | nb-NO       |
| 1045          | Polish                             | pl-PL       |
| 1046          | Portuguese - Brazil                | pt-BR       |
| 1047          | Rhaeto-Romanic                     | rm-CH       |
| 1048          | Romanian                           | ro-RO       |
| 1049          | Russian                            | ru-RU       |
| 1050          | Croatian                           | hr-HR       |
| 1051          | Slovak                             | sk-SK       |
| 1052          | Albanian - Albania                 | sq-AL       |
| 1053          | Swedish                            | sv-SE       |
| 1054          | Thai                               | th-TH       |
| 1055          | Turkish                            | tr-TR       |
| 1056          | Urdu - Pakistan                    | ur-PK       |
| 1057          | Indonesian                         | id-ID       |
| 1058          | Ukrainian                          | uk-UA       |
| 1059          | Belarusian                         | be-BY       |
| 1060          | Slovenian                          | sl-SI       |
| 1061          | Estonian                           | et-EE       |
| 1062          | Latvian                            | lv-LV       |
| 1063          | Lithuanian                         | lt-LT       |
| 1064          | Tajik                              | tg-Cyrl-TJ  |
| 1065          | Farsi                              | fa-IR       |
| 1066          | Vietnamese                         | vi-VN       |
| 1067          | Armenian - Armenia                 | hy-AM       |

| Language Code | Description (informative) | BCP 47 Code |
|---------------|---------------------------|-------------|
| 1068          | Azeri (Latin)             | az-Latn-AZ  |
| 1069          | Basque                    | eu-ES       |
| 1070          | Sorbian                   | wen-DE      |
| 1071          | FYRO Macedonian           | mk-MK       |
| 1072          | Sutu                      | st-ZA       |
| 1073          | Tsonga                    | ts-ZA       |
| 1074          | Tswana                    | tn-ZA       |
| 1075          | Venda                     | ven-ZA      |
| 1076          | Xhosa                     | xh-ZA       |
| 1077          | Zulu                      | zu-ZA       |
| 1078          | Afrikaans - South Africa  | af-ZA       |
| 1079          | Georgian                  | ka-GE       |
| 1080          | Faroese                   | fo-FO       |
| 1081          | Hindi                     | hi-IN       |
| 1082          | Maltese                   | mt-MT       |
| 1083          | Sami                      | se-NO       |
| 1084          | Gaelic (Scotland)         | gd-GB       |
| 1085          | Yiddish                   | yi          |
| 1086          | Malay - Malaysia          | ms-MY       |
| 1087          | Kazakh                    | kk-KZ       |
| 1088          | Kyrgyz (Cyrillic)         | ky-KG       |
| 1089          | Swahili                   | sw-KE       |
| 1090          | Turkmen                   | tk-TM       |
| 1091          | Uzbek (Latin)             | uz-Latn-UZ  |
| 1092          | Tatar                     | tt-RU       |
| 1093          | Bengali (India)           | bn-IN       |
| 1094          | Punjabi                   | pa-IN       |
| 1095          | Gujarati                  | gu-IN       |
| 1096          | Oriya                     | or-IN       |
| 1097          | Tamil                     | ta-IN       |
| 1098          | Telugu                    | te-IN       |
| 1099          | Kannada                   | kn-IN       |
| 1100          | Malayalam                 | ml-IN       |
| 1101          | Assamese                  | as-IN       |

| Language Code | Description (informative)            | BCP 47 Code |
|---------------|--------------------------------------|-------------|
| 1102          | Marathi                              | mr-IN       |
| 1103          | Sanskrit                             | sa-IN       |
| 1104          | Mongolian (Cyrillic)                 | mn-MN       |
| 1105          | Tibetan - People's Republic of China | bo-CN       |
| 1106          | Welsh                                | cy-GB       |
| 1107          | Khmer                                | km-KH       |
| 1108          | Lao                                  | lo-LA       |
| 1109          | Burmese                              | my-MM       |
| 1110          | Galician                             | gl-ES       |
| 1111          | Konkani                              | kok-IN      |
| 1112          | Manipuri                             | mni         |
| 1113          | Sindhi - India                       | sd-IN       |
| 1114          | Syriac                               | syr-SY      |
| 1115          | Sinhalese - Sri Lanka                | si-LK       |
| 1116          | Cherokee - United States             | chr-US      |
| 1117          | Inuktitut                            | iu-Cans-CA  |
| 1118          | Amharic - Ethiopia                   | am-ET       |
| 1119          | Tamazight (Arabic)                   | tmz         |
| 1120          | Kashmiri (Arabic)                    | ks-Arab-IN  |
| 1121          | Nepali                               | ne-NP       |
| 1122          | Frisian - Netherlands                | fy-NL       |
| 1123          | Pashto                               | ps-AF       |
| 1124          | Filipino                             | fil-PH      |
| 1125          | Divehi                               | dv-MV       |
| 1126          | Edo                                  | bin-NG      |
| 1127          | Fulfulde - Nigeria                   | fuv-NG      |
| 1128          | Hausa - Nigeria                      | ha-Latn-NG  |
| 1129          | Ibibio - Nigeria                     | ibb-NG      |
| 1130          | Yoruba                               | yo-NG       |
| 1131          | Quecha - Bolivia                     | quz-BO      |
| 1132          | Sepedi                               | nso-ZA      |
| 1136          | Igbo - Nigeria                       | ig-NG       |
| 1137          | Kanuri - Nigeria                     | kr-NG       |
| 1138          | Oromo                                | gaz-ET      |

| Language Code | Description (informative)            | BCP 47 Code |
|---------------|--------------------------------------|-------------|
| 1139          | Tigrigna - Ethiopia                  | ti-ER       |
| 1140          | Guarani - Paraguay                   | gn-PY       |
| 1141          | Hawaiian - United States             | haw-US      |
| 1142          | Latin                                | la          |
| 1143          | Somali                               | so-SO       |
| 1144          | Yi                                   | ii-CN       |
| 1145          | Papiamentu                           | pap-AN      |
| 1152          | Uighur - China                       | ug-Arab-CN  |
| 1153          | Maori - New Zealand                  | mi-NZ       |
| 2049          | Arabic - Iraq                        | ar-IQ       |
| 2052          | Chinese - People's Republic of China | zh-CN       |
| 2055          | German - Switzerland                 | de-CH       |
| 2057          | English - United Kingdom             | en-GB       |
| 2058          | Spanish - Mexico                     | es-MX       |
| 2060          | French - Belgium                     | fr-BE       |
| 2064          | Italian - Switzerland                | it-CH       |
| 2067          | Dutch - Belgium                      | nl-BE       |
| 2068          | Norwegian (Nynorsk)                  | nn-NO       |
| 2070          | Portuguese - Portugal                | pt-PT       |
| 2072          | Romanian - Moldova                   | ro-MO       |
| 2073          | Russian - Moldova                    | ru-MO       |
| 2074          | Serbian (Latin)                      | sr-Latn-CS  |
| 2077          | Swedish - Finland                    | sv-FI       |
| 2080          | Urdu - India                         | ur-IN       |
| 2092          | Azeri (Cyrillic)                     | az-Cyrl-AZ  |
| 2108          | Gaelic (Ireland)                     | ga-IE       |
| 2110          | Malay - Brunei Darussalam            | ms-BN       |
| 2115          | Uzbek (Cyrillic)                     | uz-Cyrl-UZ  |
| 2117          | Bengali (Bangladesh)                 | bn-BD       |
| 2118          | Punjabi (Pakistan)                   | pa-PK       |
| 2128          | Mongolian (Mongolian)                | mn-Mong-CN  |
| 2129          | Tibetan - Bhutan                     | bo-BT       |
| 2137          | Sindhi - Pakistan                    | sd-PK       |
| 2143          | Tamazight (Latin)                    | tzm-Latn-DZ |

| Language Code | Description (informative)     | BCP 47 Code |
|---------------|-------------------------------|-------------|
| 2144          | Kashmiri (Devanagari)         | ks-Deva-IN  |
| 2145          | Nepali - India                | ne-IN       |
| 2155          | Quecha - Ecuador              | quz-EC      |
| 2163          | Tigrigna - Eritrea            | ti-ET       |
| 3073          | Arabic - Egypt                | ar-EG       |
| 3076          | Chinese - Hong Kong SAR       | zh-HK       |
| 3079          | German - Austria              | de-AT       |
| 3081          | English - Australia           | en-AU       |
| 3082          | Spanish - Spain (Modern Sort) | es-ES       |
| 3084          | French - Canada               | fr-CA       |
| 3098          | Serbian (Cyrillic)            | sr-Cyrl-CS  |
| 3179          | Quecha - Peru                 | quz-PE      |
| 4097          | Arabic - Libya                | ar-LY       |
| 4100          | Chinese - Singapore           | zh-SG       |
| 4103          | German - Luxembourg           | de-LU       |
| 4105          | English - Canada              | en-CA       |
| 4106          | Spanish - Guatemala           | es-GT       |
| 4108          | French - Switzerland          | fr-CH       |
| 4122          | Croatian (Bosnia/Herzegovina) | hr-BA       |
| 5121          | Arabic - Algeria              | ar-DZ       |
| 5124          | Chinese - Macao SAR           | zh-MO       |
| 5127          | German - Liechtenstein        | de-LI       |
| 5129          | English - New Zealand         | en-NZ       |
| 5130          | Spanish - Costa Rica          | es-CR       |
| 5132          | French - Luxembourg           | fr-LU       |
| 5146          | Bosnian (Bosnia/Herzegovina)  | bs-Latn-BA  |
| 6145          | Arabic - Morocco              | ar-MO       |
| 6153          | English - Ireland             | en-IE       |
| 6154          | Spanish - Panama              | es-PA       |
| 6156          | French - Monaco               | fr-MC       |
| 7169          | Arabic - Tunisia              | ar-TN       |
| 7177          | English - South Africa        | en-ZA       |
| 7178          | Spanish - Dominican Republic  | es-DO       |
| 7180          | French - West Indies          | fr-029      |

| Language Code | Description (informative)         | BCP 47 Code |
|---------------|-----------------------------------|-------------|
| 8193          | Arabic - Oman                     | ar-OM       |
| 8201          | English - Jamaica                 | en-JM       |
| 8202          | Spanish - Venezuela               | es-VE       |
| 8204          | French - Reunion                  | fr-RE       |
| 9217          | Arabic - Yemen                    | ar-YE       |
| 9225          | English - Caribbean               | en-029      |
| 9226          | Spanish - Colombia                | es-CO       |
| 9228          | French - Democratic Rep. of Congo | fr-CG       |
| 10241         | Arabic - Syria                    | ar-SY       |
| 10249         | English - Belize                  | en-BZ       |
| 10250         | Spanish - Peru                    | es-PE       |
| 10252         | French - Senegal                  | fr-SN       |
| 11265         | Arabic - Jordan                   | ar-JO       |
| 11273         | English - Trinidad                | en-TT       |
| 11274         | Spanish - Argentina               | es-AR       |
| 11276         | French - Cameroon                 | fr-CM       |
| 12289         | Arabic - Lebanon                  | ar-LB       |
| 12297         | English - Zimbabwe                | en-ZW       |
| 12298         | Spanish - Ecuador                 | es-EC       |
| 12300         | French - Cote d'Ivoire            | fr-CI       |
| 13313         | Arabic - Kuwait                   | ar-KW       |
| 13321         | English - Philippines             | en-PH       |
| 13322         | Spanish - Chile                   | es-CL       |
| 13324         | French - Mali                     | fr-ML       |
| 14337         | Arabic - U.A.E.                   | ar-AE       |
| 14345         | English - Indonesia               | en-ID       |
| 14346         | Spanish - Uruguay                 | es-UY       |
| 14348         | French - Morocco                  | fr-MA       |
| 15361         | Arabic - Bahrain                  | ar-BH       |
| 15369         | English - Hong Kong SAR           | en-HK       |
| 15370         | Spanish - Paraguay                | es-PY       |
| 15372         | French - Haiti                    | fr-HT       |
| 16385         | Arabic - Qatar                    | ar-QA       |
| 16393         | English - India                   | en-IN       |

| Language Code   | Description (informative)     | BCP 47 Code |
|-----------------|-------------------------------|-------------|
| 16394           | Spanish - Bolivia             | es-BO       |
| 17417           | English - Malaysia            | en-MY       |
| 17418           | Spanish - El Salvador         | es-SV       |
| 18441           | English - Singapore           | en-SG       |
| 18442           | Spanish - Honduras            | es-HN       |
| 19466           | Spanish - Nicaragua           | es-NI       |
| 20490           | Spanish - Puerto Rico         | es-PR       |
| 21514           | Spanish - United States       | es-US       |
| 58378           | Spanish - Latin America       | es-419      |
| 58380           | French - North Africa         | fr-015      |
| Any other value | Undefined. Shall not be used. |             |

### 14.9.3 Use of DOS File Paths

The following fields allow the use of a DOS file path in place of the (preferred) IRI syntax:

- INCLUDEPICTURE (Part 1, §17.16.5.27)
- INCLUDETTEXT (Part 1, §17.16.5.28)

When a DOS file path is specified in a *field-argument*, each backslash character shall be preceded directly by another backslash character [Example: E:\\example.docx end example]

### 14.9.4 Field definitions

#### 14.9.4.1 AUTONUM

**Syntax:**

AUTONUM [ *switches* ]

**Description:** In paragraphs formatted with one of the nine built-in heading styles, paragraph numbering restarts at 1 in each successive heading level. If headings that contain AUTONUM fields are followed by body text paragraphs that also contain AUTONUM fields, the paragraph numbering of the body text is restarted at 1 after each heading. If the headings don't contain AUTONUM fields, body text paragraphs that contain AUTONUM fields are numbered in a continuous, sequential series throughout the document. [Note: This field is supported for legacy reasons, It is recommended that LISTNUM (Part 1, §17.16.5.33) be used instead. end note]

The XML generated for a complex field implementation shall not have the optional field value stored.

**Field Value:** A new paragraph number in ascending sequential order.

**Switches:** Zero or one of the *general-formatting-switches*, or zero or more of the following *field-specific-switches*.

|                                       |                                                                                                                                                       |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>\s</code> <i>field-argument</i> | <i>text</i> in this switch's <i>field-argument</i> specifies the separator character to be used. If <code>\s</code> is omitted, a period (.) is used. |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|

[*Example:* When the following fields are updated:

```
AUTONUM
AUTONUM \* Arabic \s :
AUTONUM \* alphabetic \s " "xxx
AUTONUM \* ROMAN
AUTONUM \* OrdText
```

The results are:

```
1.
2:
c xxx
IV.
fifth.
```

*end example]*

#### 14.9.4.2 AUTONUMLGL

**Syntax:**

AUTONUMLGL [ *switches* ]

**Description:** For legal and technical publications, use the nine built-in heading styles to format headings in the document, and then insert an AUTONUMLGL field at the beginning of each heading paragraph. The numbers reflect the heading levels that correspond to the heading styles. If an AUTONUMLGL field is inserted in paragraphs of body text paragraphs not formatted with built-in heading styles, the number of the preceding heading is included in the paragraph number. [*Note:* This field is supported for legacy reasons, It is recommended that LISTNUM (Part 1, §17.16.5.33) be used instead. *end note*]

This field only makes sense in terms of multi-level headings. Given the following headings:

```
Heading 1
Heading 2
Heading 2
Heading 1
```



this field allows

- 1. Heading 1
- 1.1. Heading 2
- 1.2. Heading 2
- 2. Heading 1

At each level, the numbering sequence does two things—it increments specific to that level, and it includes the value from the previous level.

The XML generated for a complex field implementation shall not have the optional field value stored.

**Field Value:** A new paragraph number in ascending sequential order.

**Switches:** Zero or one of the *general-formatting-switches*, or zero or more of the following *field-specific-switches*.

|                                       |                                                                                                                                                       |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>\e</code>                       | Removes the trailing separator (period).                                                                                                              |
| <code>\s <i>field-argument</i></code> | <i>text</i> in this switch's <i>field-argument</i> specifies the separator character to be used. If <code>\s</code> is omitted, a period (.) is used. |

[Example: When the following fields are updated:

```
AUTONUMLGL
AUTONUMLGL \* Arabic \s :
AUTONUMLGL \* alphabetic \s " "xxx
AUTONUMLGL \* ROMAN
AUTONUMLGL \e xxx
```

The results are:

```
1.
2:
c xxx
IV.
5xxx
```

end example]

#### 14.9.4.3 AUTONUMOUT

**Syntax:**

```
AUTONUMOUT
```

**Description:** Use the nine built-in heading styles to format headings in the document, and then insert an AUTONUMOUT field at the beginning of each heading paragraph. The numbers reflect the heading levels that

correspond to the heading styles. [*Note: This field is supported for legacy reasons, It is recommended that LISTNUM (Part 1, §17.16.5.33) be used instead. end note*]

The XML generated for a complex field implementation shall not have the optional field value stored.

This field allows the numbering to be incremented based on the heading level. Given the following:

```
{AutoNumOut} Heading 1
{AutoNumOut} Heading 2
{AutoNumOut} Heading 2
{AutoNumOut} Heading 1
```

results in

```
I. Heading 1
A. Heading 2
B. Heading 2
II. Heading 1
```

**Field Value:** A paragraph number.

**Switches:** None.

[*Example: When the following fields are updated:*

```
AUTONUMOUT
AUTONUMOUT
```

The results are:

```
1.
2.
```

*end example*]

#### 14.9.4.4 BARCODE

**Syntax:**

```
BARCODE field-argument [ switches ]
```

**Description:** Produces a postal bar code in a machine-readable form of address used by the U.S. Postal Service. The barcode is in the form of either a POSTNET delivery-point bar code or a Facing Identification Mark (FIM). *text* in *field-argument* can be either a postal address or a bookmark name. In the case of a postal address, all that is needed is a 5-digit or 9-digit ZIP code; the rest of the address is superfluous.

**Field Value:** A postal bar code.

**Switches:** Zero or more of the following *field-specific-switches*.

|                                       |                                                                                                                                                                        |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>\b</code>                       | Indicates that <i>text</i> in <i>field-argument</i> is the name of a bookmark.                                                                                         |
| <code>\f <i>field-argument</i></code> | Inserts a Facing Identification Mark (FIM). <i>text</i> in this switch's <i>field-argument</i> shall be either "A" (courtesy reply mark) or "C" (business reply mark). |
| <code>\u</code>                       | Indicates that <i>text</i> in <i>field-argument</i> is a U.S. postal address.                                                                                          |

[*Example:* Consider the case in which PostalAddress is the name of a bookmark for the text "2051 Swans Neck Way, Reston VA 20191". When the following fields are updated:

```

BARCODE 20191
BARCODE 20191 \u
BARCODE 20191-4023 \u
BARCODE "2051 Swans Neck Way, Reston VA 20191" \u
BARCODE "2051 Swans Neck Way, Reston VA 20191" \f A
BARCODE 20191 \f C
BARCODE PostalAddress \b \f A

```

The results are:

|||||

|||||

|||||

|||||

|||

|||

|||

*end example]*

## 14.9.4.5 BIDIOUTLINE

**Syntax:**

BIDIOUTLINE

**Description:** This field is identical to the AUTONUMGL field (§14.9.4.3), except for the separator that delimits each level of the paragraph numbering (this field uses a hyphen-minus (U+002D) instead of a full stop (U+002E) character as the default separator character).

**Field Value:** A new paragraph number in ascending sequential order, as defined by the description in §14.9.4.3.

**Switches:** None.

## 14.9.4.6 EQ

**Syntax:**EQ [ *switches* ] ( *eq-argument-list* ) [ *switches* ]

*eq-argument-list* is a list of arguments separated using a separator character. For implementations using a period (.) as the radix point, the separator character is a comma (,). For implementations using a comma (,) as the radix point, the separator character is a semicolon (;).

**Description:** Computes the specified mathematical equation.

**Field Value:** The result of the specified mathematical equation. [Note: The result of an EQ field can be used as an argument in another EQ field's *eq-argument-list*. end note]

**Switches:** The left-hand *switches* can only be one of the following: \a, \b, \d, \f, \i, \l, \o, \r, \s, and \x. Each of these switches has one or more subswitches, as shown below.

\a produces an array using the argument values in *eq-argument-list* (which are in row-major order) and the *field-specific-switches* below:

|                           |                                                                                                                                                         |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| \ac                       | Alignment is centered in each array column.                                                                                                             |
| \al                       | Alignment is left in each array column.                                                                                                                 |
| \ar                       | Alignment is right in each array column.                                                                                                                |
| \co <i>field-argument</i> | The number of columns in the array is specified by <i>text</i> in this switch's <i>field-argument</i> . In the absence of this switch, the number is 1. |
| \hs <i>field-argument</i> | Adds the integral number of points of horizontal spacing specified by <i>text</i> in this switch's <i>field-argument</i> between columns.               |
| \vs <i>field-argument</i> | Adds the integral number of points of vertical spacing specified by <i>text</i> in this switch's <i>field-argument</i> between lines.                   |

`\b` brackets the single element in *eq-argument-list* in a size appropriate for that element. The default form of brackets is parentheses. The *field-specific-switches* below can be used:

|                        |                                                                                                                                                                                                                                               |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>\bc \char</code> | Uses the character designated by <i>char</i> as both the left and right bracket character. However, if <i>char</i> is {, [, (, or <, that character is used for the left bracket, and }, ], ), or >, respectively, is used for right bracket. |
| <code>\lc \char</code> | Uses the character designated by <i>char</i> as the left bracket character.                                                                                                                                                                   |
| <code>\rc \char</code> | Uses the character designated by <i>char</i> as the right bracket character.                                                                                                                                                                  |

`\d` Controls where the next character following the EQ field is drawn (that is, the displacement). *eq-argument-list* shall have no arguments. The *field-specific-switches* below can be used:

|                                 |                                                                                                                              |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <code>\ba field-argument</code> | Draws to the left (backward) the integral number of points specified by <i>text</i> in this switch's <i>field-argument</i> . |
| <code>\fo field-argument</code> | Draws to the right (forward) the integral number of points specified by <i>text</i> in this switch's <i>field-argument</i> . |
| <code>\li</code>                | Underlines the space up to the next character.                                                                               |

`\f` Creates a fraction with the first argument as numerator and the second argument as denominator, centered above and below the division line, respectively. *eq-argument-list* shall have exactly two arguments. There are no *field-specific-switches* for this switch.

`\i` Creates an integral using the specified or default symbol and three elements. The first argument is the lower limit, the second is the upper limit, and the third is the integrand. *eq-argument-list* shall have exactly three arguments. The *field-specific-switches* below can be used:

|                        |                                                                                                                                                    |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>\fc \char</code> | Uses the character designated by <i>char</i> as the fixed-height character for the symbol.                                                         |
| <code>\in</code>       | Uses an inline format with the limits displayed to the right of the symbol instead of above and below it.                                          |
| <code>\pr</code>       | Uses the symbol Capital pi and creates a product.                                                                                                  |
| <code>\su</code>       | Uses the symbol Capital sigma and creates a summation.                                                                                             |
| <code>\vc \char</code> | Uses the character designated by <i>char</i> as the variable-height character for the symbol. The symbol matches the height of the third argument. |

`\lf` Creates a list from an arbitrary number of arguments. There are no *field-specific-switches* for this switch.

`\o` Using an arbitrary number of arguments, displays each successive argument on top of the previous one. Each character is displayed within an invisible character box, with the switches being available to align the boxes on top of one another. The *field-specific-switches* below can be used:

|                  |                                               |
|------------------|-----------------------------------------------|
| <code>\ac</code> | Alignment character box center (the default). |
| <code>\al</code> | Alignment character box left.                 |
| <code>\ar</code> | Alignment character box right.                |

`\r` Creates a radical. *eq-argument-list* shall have either one or two arguments. If it has one argument, the result is the square root of that argument. If it has two arguments, the result is the *n*th root of the second argument, where *n* is the first argument. There are no *field-specific-switches* for this switch.

`\s` Creates a subscript or superscript. One or more arguments are permitted. If more than one element is specified, the elements are stacked and left-aligned. The *field-specific-switches* below can be used:

|                                 |                                                                                                                                                                             |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>\ai field-argument</code> | Adds space above a line in a paragraph by the integral number of points specified by <i>text</i> in this switch's <i>field-argument</i> . The default is 2 points.          |
| <code>\di field-argument</code> | Adds space below a line in a paragraph by the integral number of points specified by <i>text</i> in this switch's <i>field-argument</i> .                                   |
| <code>\do field-argument</code> | Moves a single argument below the adjacent text by the integral number of points specified by <i>text</i> in this switch's <i>field-argument</i> . The default is 2 points. |
| <code>\up field-argument</code> | Moves a single argument above the adjacent text by the integral number of points specified by <i>text</i> in this switch's <i>field-argument</i> .                          |

`\x` Creates one or more border segments around a single argument. By default, all four borders are added. *eq-argument-list* shall have no arguments. The *field-specific-switches* below can be used:

|                  |                                                       |
|------------------|-------------------------------------------------------|
| <code>\bo</code> | Draws a horizontal border below the argument.         |
| <code>\le</code> | Draws a vertical border to the left of the argument.  |
| <code>\ri</code> | Draws a vertical border to the right of the argument. |
| <code>\to</code> | Draws a horizontal border above the argument.         |

[Example: When the following fields are updated:

EQ `\a \co 2 \ac \hs 10 ( 1000, 20, A, Sunday )`  
EQ `\b \bc \l ( -100 )` EQ `\b \bc \l ( \r(3, a + b)`  
xx EQ `\d \fo 20 ( )` xx EQ `\d \fo 30 \li ( )`xx  
EQ `\f ( 1, 32 )` EQ `\f ( 7, 64 )`  
EQ `\i ( 0, ∞, x )` EQ `\i \su \in ( 0, 10, x )` EQ `\i \pr \in ( 0, 5, x )`  
EQ `\i \fc { ( 0, 5, \f (x, 0.34) )` EQ `\i \vc { ( 0, 5, \f (x, 0.34) )`  
  
EQ `\l ( 0, 10 )`  
EQ `\b \lc \l \rc \l ( \l (0, 10) )`

$\text{EQ} \backslash \text{o} ( 0, 0, 0 )$   $\text{EQ} \backslash \text{o} ( 0, + )$   $\text{EQ} \backslash \text{o} \backslash \text{ar} ( 0, |, \_ )$   
 $\text{EQ} \backslash \text{r} ( 2 )$   $\text{EQ} \backslash \text{r} ( 2, x )$   
 $a \text{EQ} \backslash \text{s} \backslash \text{up} ( 2 ) + b \text{EQ} \backslash \text{s} \backslash \text{up} ( 2 )$   
 $a \text{EQ} \backslash \text{x} ( + ) b$   $a \text{EQ} \backslash \text{x} \backslash \text{to} \backslash \text{le} ( + ) b$   $a \text{EQ} \backslash \text{x} \backslash \text{bo} \backslash \text{ri} ( + ) b$

The results are:

1000      20  
A      Sunday  
| -100 |     $\left| \sqrt[3]{a + b} \right|$

xx      xx\_\_\_\_\_xx

$\frac{1}{32}$   $\frac{7}{64}$

$\int_0^{\infty} x \sum_0^{10x} \prod_0^{5x}$

$\frac{5}{0} \frac{x}{0.34} \left\{ \frac{x}{0.34} \right\}_0^5$

0, 10  
[0, 10)

0    0    0

$\sqrt{2}$      $\sqrt[2]{x}$

$a^2 + b^2$

$a \boxed{+} b$   $a \boxed{+} b$   $a \boxed{+} b$

end example]

14.9.4.7      INFO

Syntax:

INFO info-category [*field-argument*] [*switches*]

This field is documented for purposes of backwards compatibility. Each permitted value for *info-category* is also permitted as a *field-type*. Instances of the INFO field shall be treated as an instance of the *field-type* with the same value as *info-category*; that is, as if the INFO token was not present.

#### 14.9.4.8 QUOTE

This field retrieves the text specified by *text* in *field-argument*. In strict conformance mode, this text may include any other fields except SYMBOL. However, in transitional conformance mode, this text may include any other fields except AUTONUM, AUTONUMLGL, AUTONUMOUT, and SYMBOL.

#### 14.9.5 fldData (Custom Field Data)

This element specifies custom field data which shall be associated with the parent field. No information or semantics are applied to the contents of this data by ISO/IEC 29500, and therefore this field can be used as desired to store additional application-defined data with the field. However, applications should not lose the contents of this custom data if they do not understand or utilize it (i.e. the information should continue to be saved with the file).

If this element is omitted, then no custom field data is stored with the parent field. If the type attribute of the current field character is not start, then his setting can be ignored.

[Example: Consider the following WordprocessingML fragment for a complex field:

```
<w:r>
  <w:fldChar w:fldCharType="start">
    <w:fldData xml:space="preserve">1/3645ERKJHE</w:fldData>
  </w:fldChar>
</w:r>
<w:r>
  <w:instrText>PRIVATE</w:instrText>
</w:r>
<w:r>
  <w:fldChar w:fldCharType="separate" />
</w:r>
...
```

The fldData element contains custom data stored with this PRIVATE field (Part 1, §17.16.5.48), the contents of which are determined by a hosting application. *end example*]

| Parent Elements             |
|-----------------------------|
| fldChar (Part 1, §17.16.18) |

| Attributes         | Description                                                                            |
|--------------------|----------------------------------------------------------------------------------------|
| xml:space (Content | Specifies how white space should be handled for the contents of this element using the |



| Attributes                                                                                                                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Contains Significant Whitespace)<br><br>Namespace:<br><a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a> | <p>W3C space preservation rules.</p> <p>[<i>Example:</i> Consider the following run contained within a WordprocessingML document:</p> <pre>&lt;w:r&gt;   &lt;w:t&gt;   significant whitespace   &lt;/w:t&gt; &lt;/w:r&gt;</pre> <p>Although there are three spaces on each side of the text content in the run, that whitespace has not been specifically marked as significant, therefore it is subject to the space preservation rules currently specified in that run's scope. <i>end example</i>]</p> <p>The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.</p> |

[*Note:* The W3C XML Schema definition of this element's content model (CT\_Text) is located in §A.1. *end note*]

#### 14.9.6 fldData (Custom Field Data)

This element specifies custom field data which shall be associated with the parent field. No information or semantics are applied to the contents of this data by ISO/IEC 29500, and therefore this field can be used as desired to store additional application-defined data with the field. However, applications should not lose the contents of this custom data if they do not understand or utilize it (i.e. the information should continue to be saved with the file).

If this element is omitted, then no custom field data is stored with the parent field.

[*Example:* Consider the following WordprocessingML fragment for a simple field:

```
<w:fldSimple w:instr="PRIVATE">
  <w:fldData xml:space="preserve">///3645ERKJHE</w:fldData>
</w:fldSimple>
```

The fldData element contains custom data stored with this PRIVATE field (Part 1, §17.16.5.48), the contents of which are determined by a hosting application. *end example*]

| Parent Elements               |
|-------------------------------|
| fldSimple (Part 1, §17.16.19) |

| Attributes                                          | Description                                                                                                                                                                                                                  |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| xml:space (Content Contains Significant Whitespace) | <p>Specifies how white space should be handled for the contents of this element using the W3C space preservation rules.</p> <p>[<i>Example:</i> Consider the following run contained within a WordprocessingML document:</p> |

| Attributes                                                                                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Namespace:<br><a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a> | <pre>&lt;w:r&gt;   &lt;w:t&gt;   significant whitespace   &lt;/w:t&gt; &lt;/w:r&gt;</pre> <p>Although there are three spaces on each side of the text content in the run, that whitespace has not been specifically marked as significant, therefore it is subject to the space preservation rules currently specified in that run's scope. <i>end example</i></p> <p>The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.</p> |

[Note: The W3C XML Schema definition of this element's content model (CT\_Text) is located in §A.1. *end note*]

#### 14.9.7 hyperlink (Hyperlink) (Part 1, §17.16.22)

| Attributes                                                                   | Description                                       |
|------------------------------------------------------------------------------|---------------------------------------------------|
| id (Hyperlink Target)<br>Namespace:<br>.../officeDocument/2006/relationships | The same as the id attribute in Part 1, §17.16.22 |

### 14.10 Simple Types

The following additional simple type information in the <http://schemas.openxmlformats.org/wordprocessingml/2006/main> namespace is used for documents of a transitional conformance class.

#### 14.10.1 Additional member types for the union in ST\_DecimalNumberOrPercent (Part 1, §17.18.11)

The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.

- The ST\_UnqualifiedPercentage simple type (§14.10.10).

#### 14.10.2 Additional enumeration values for ST\_Jc (Part 1, §17.18.44)

The following additional enumeration values can be specified for a document of a transitional conformance class.

| Enumeration Value              | Description                       |
|--------------------------------|-----------------------------------|
| left (Align to Leading Edge)   | Semantically equivalent to start. |
| right (Align to Trailing Edge) | Semantically equivalent to end.   |

### 14.10.3 Additional enumeration values for ST\_JcTable (Part 1, §17.18.45)

The following additional enumeration values can be specified for a document of a transitional conformance class.

| Enumeration Value              | Description                                                                                                                                                                                                                     |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| left (Align to Starting Edge)  | Specifies that the table shall be aligned to the leading edge of the text flow – the left text margin (for a left-to-right table); or the right text margin (for a right-to-left table) in the document. (See Part 1, §17.4.1)  |
| right (Align to Trailing Edge) | Specifies that the table shall be aligned to the trailing edge of the text flow – the right text margin (for a left-to-right table); or the left text margin (for a right-to-left table) in the document. (See Part 1, §17.4.1) |

### 14.10.4 Additional enumeration values for ST\_NumberFormat (Part 1, §17.18.59)

| Enumeration Value                                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| decimalFullWidth2 (Full Width Arabic Numerals Alternate) | <p>Specifies that the sequence shall consist of a set of full-width Arabic numbering.</p> <p>To determine the text that is displayed for any value, this sequence specifies a set of characters that represent positions 1–9 and then those same characters are combined with each other and 0 (represents the number zero) to construct the remaining values.</p> <p>The set of characters used by this numbering format for values 0–9 is U+FF10–U+FF19, respectively.</p> <p>For values greater than the size of the set, the number is constructed by following these steps:</p> <ol style="list-style-type: none"> <li>1. Divide the value by 10 and write the symbol which represents the remainder.</li> <li>2. Divide the quotient of the previous division by 10 and write the symbol, which represents the remainder, to the left of the existing position.</li> <li>3. Repeat step 2 until the remaining value is equal to zero.</li> </ol> <p>[Example: The numbering for the items should be represented by the following pattern: 1, 2, 3, ..., 8, 9, 10, 11, 12, ..., 18, 19, 20, 21, ... end example]</p> |

#### 14.10.5 Additional enumeration values for ST\_StyleSort (Part 1, §17.18.82)

The following additional enumeration values can be specified for a document of a transitional conformance class.

| Enumeration Value             | Description                                                                                                                                  |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 0000 (Sort by Style Name)     | Specifies that styles which are visible should be sorted by their names.                                                                     |
| 0001 (Sort by Style Priority) | Specifies that styles which are visible should be sorted by their UI priority using the uiPriority element (Part 1, §17.7.4.19).             |
| 0002 (Sort by Default Method) | Specifies that styles which are visible should be sorted by the default sorting of the host application.                                     |
| 0003 (Sort by Font)           | Specifies that styles which are visible should be sorted by the font which they apply.                                                       |
| 0004 (Sort by Based On Style) | Specifies that styles which are visible should be sorted by the style on which they are based using the basedOn element (Part 1, §17.7.4.3). |
| 0005 (Sort by Style Type)     | Specifies that styles which are visible should be sorted by their style types (i.e. character, linked, paragraph).                           |

#### 14.10.6 Additional enumeration values for ST\_TabJc (Part 1, §17.18.84)

The following additional enumeration values can be specified for a document of a transitional conformance class.

| Enumeration Value    | Description                       |
|----------------------|-----------------------------------|
| left (Leading Tab)   | Semantically equivalent to start. |
| right (Trailing Tab) | Semantically equivalent to end.   |

#### 14.10.7 Additional enumeration values for ST\_TextDirection (Part 1, §17.18.93)

The following additional enumeration values can be specified for a document of a transitional conformance class.

| Enumeration Value                              | Description                     |
|------------------------------------------------|---------------------------------|
| btLr (Lines Flow From Left to Right)           | Semantically equivalent to lr.  |
| lrTb (Lines Flow From Top To Bottom)           | Semantically equivalent to tb.  |
| lrTbV (Lines Flow From Top to Bottom, Rotated) | Semantically equivalent to tbV. |
| tbLrV (Lines Flow From Left to Right, Rotated) | Semantically equivalent to lrV. |
| tbRl (Lines Flow From Right to Left)           | Semantically equivalent to rl.  |
| tbRlV (Lines Flow From Right to Left, Rotated) | Semantically equivalent to rlV. |

### 14.10.8 Additional member types for the union in ST\_TextScale (Part 1, §17.18.95)

The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.

The ST\_TextScaleDecimal simple type (§9.10.11).

### 14.10.9 ST\_Cnf (Conditional Formatting Bitmask)

This simple type specifies the format for the set of conditional formatting properties that have been applied to this object.

These properties are expressed using a string serialization of a binary bitmask for each of the following properties (reading from the first character position right):

- First Row - Is this the first row of the table?
- Last Row - Is this the last row of the table?
- First Column - Does this belong to the first column of the table?
- Last Column - Does this belong to the last column of the table?
- Band 1 Vertical - Does this belong to a column which should receive band 1 formatting? This property specifies whether the cell should receive the formatting specified for odd-numbered columns (e.g. 1,3,5,...)
- Band 2 Vertical - Does this belong to a column which should receive band 2 formatting? This property specifies whether the cell should receive the formatting specified for even-numbered columns (e.g. 2,4,6...)
- Band 1 Horizontal - Does this receive band 1 formatting? This property specifies whether the cell should receive the formatting specified for odd-numbered rows (e.g. 1,3,5,...)
- Band 2 Horizontal - Does this receive band 2 formatting? This property specifies whether the cell should receive the formatting specified for even-numbered rows (e.g. 2,4,6...)
- NE Cell - Is this part of the top-right corner of the table?
- NW Cell - Is this part of the top-left corner of the table?
- SE Cell - Is this part of the bottom-right corner of the table?
- SW Cell - Is this part of the bottom-left corner of the table?

For each of these properties, a value of 1 in the specified character position in the string means that the value is true, a value of 0 means false. All values shall be specified.

[Example: Consider a paragraph in the top right corner of a table with a table style applied. This paragraph would need to specify the following WordprocessingML:

```
<w:p>
  <w:pPr>
    <w:cnfStyle w:val="101000000100" />
    ...
  </w:pPr>
```

...  
</w:p>

This paragraph specifies that it has the conditional properties from the table style for the first column, first row, and the NW corner of the parent table by setting the appropriate bits in the val attribute. *end example*

This simple type's contents are a restriction of the W3C XML Schema string datatype.

This simple type also specifies the following restrictions:

- This simple type's contents have a length of exactly 12 characters.
- This simple type's contents shall match the following regular expression pattern: `[01]*`.

| Referenced By                                                            |
|--------------------------------------------------------------------------|
| cnfStyle@val (§14.3.9); cnfStyle@val (§14.2.1.1); cnfStyle@val (§14.3.9) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_Cnf) is located in §A.1. *end note*]

#### 14.10.10 ST\_UnqualifiedPercentage (Percentage Value Without Percent Sign)

This simple type specifies additional formats for percentage-based values which can only be used within the transitional conformance class.

Specifically, this value allows percentage-based values to be specified as follows:

- For the w attribute in CT\_TblWidth (Part 1, §17.4.88), the value is stored in 50ths of a percent.
- For all other uses, the value is stored in whole percentage points.

[Example: Consider the following WordprocessingML fragment:

```
<w:tblW w:w="1000" w:type="pct" />
```

The tblW element is based on the CT\_TblWidth complex type, and the type attribute's value is pct, which means that this value is measured in 50ths of a percent (i.e. 1000 is equal to 20%). *end example*

This simple type's contents are a restriction of the W3C XML Schema integer datatype.

| Referenced By                                 |
|-----------------------------------------------|
| ST_DecimalNumberOrPercent (Part 1, §17.18.11) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_UnqualifiedPercentage) is located in §A.1. *end note*]

### 14.10.11 ST\_TextScaleDecimal (Text Expansion/Compression Percentage)

This simple type specifies that the percentage by which the contents of a run shall be expanded or compressed with respect to its normal (100%) character width, with a minimum width of 1% and maximum width of 600%.

[*Example:* Consider a run of text which must be expanded to 300% when displaying each character within the contents of the run. This constraint is specified using the following WordprocessingML:

```
<w:rPr>
  <w:w w:val="300"/>
</w:rPr>
```

This run explicitly declares that the *w* value is 300, so the contents of this run appear at 300% of their normal character width by expanding the width of each character. *end example*]

This simple type's contents are a restriction of the W3C XML Schema integer datatype.

This simple type also specifies the following restrictions:

This simple type has a minimum value of greater than or equal to 0.

This simple type has a maximum value of less than or equal to 600.

| Referenced By            |
|--------------------------|
| ST_TextScale (§17.18.95) |

## 14.11 Changed attributes

The following attributes, which are defined in subclauses within Part 1, §17, “WordprocessingML”, have different source relationships when used in documents of the Transitional conformance class:

### 14.11.1 Changed attribute for contentPart element (Part 1, §17.3.3.2)

| Attributes                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship to Part)                               | Specifies the relationship ID to a specified part.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Namespace:<br>.../officeDocument<br>/2006/relationships | <p>The specified relationship shall match the relationship type required by the parent element:</p> <p>http://schemas.openxmlformats.org/officeDocument/2006/customXml for the contentPart element</p> <p>http://schemas.openxmlformats.org/officeDocument/2006/relationships/footer for the footerReference element</p> <p>http://schemas.openxmlformats.org/officeDocument/2006/relationships/header for the headerReference element</p> <p>http://schemas.openxmlformats.org/officeDocument/2006/relationships/font for the embedBold, embedBoldItalic, embedItalic, or embedRegular elements</p> <p>http://schemas.openxmlformats.org/officeDocument/2006/relationships/printe</p> |

| Attributes | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <p>rSettings for the printerSettings element<br/> <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink">http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink</a> for the longDesc or hyperlink element</p> <p>[Example: Consider an XML element which has the following id attribute:</p> <pre>&lt;... r:id="rId1" /&gt;</pre> <p>The markup specifies the associated relationship part with relationship ID rId1 contains the corresponding relationship information for the parent XML element. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |

#### 14.11.2 Changed attribute for control element (Part 1, §17.3.3.3)

| Attributes                                                                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>id (Embedded Control Properties Relationship Reference)</p> <p>Namespace:<br/> .../officeDocument/2006/relationships</p> | <p>Specifies the relationship ID for the relationship that contains the properties for this embedded control. This property bag is contained in a separate part within the Office Open XML package.</p> <p>The relationship explicitly targeted by this attribute shall be of type <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/control">http://schemas.openxmlformats.org/officeDocument/2006/relationships/control</a> or the document shall be considered non-conformant.</p> <p>If this attribute is omitted, then the embedded control shall be given no property bag when instantiated.</p> <p>[Example: Consider the following WordprocessingML markup for an embedded control in a document:</p> <pre>&lt;w:control r:id="rId5" w:name="CheckBox1" w:shapeid="_x0000_s1027" /&gt;</pre> <p>The id attribute in the relationship reference namespace specifies that the relationship with relationship ID rId5 must contain the property data for this embedded control. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |

#### 14.11.3 Changed attribute for movie element (Part 1, §17.3.3.17)

| Attributes                       | Description                                               |
|----------------------------------|-----------------------------------------------------------|
| <p>id (Relationship to Part)</p> | <p>Specifies the relationship ID to a specified part.</p> |



| Attributes                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Namespace:<br>.../officeDocument/2006/relationships | <p>The specified relationship shall match the relationship type required by the parent element:</p> <p>http://schemas.openxmlformats.org/officeDocument/2006/customXml for the contentPart element</p> <p>http://schemas.openxmlformats.org/officeDocument/2006/relationships/footer for the footerReference element</p> <p>http://schemas.openxmlformats.org/officeDocument/2006/relationships/header for the headerReference element</p> <p>http://schemas.openxmlformats.org/officeDocument/2006/relationships/font for the embedBold, embedBoldItalic, embedItalic, or embedRegular elements</p> <p>http://schemas.openxmlformats.org/officeDocument/2006/relationships/printerSettings for the printerSettings element</p> <p>http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink for the longDesc or hyperlink element</p> <p>[Example: Consider an XML element which has the following id attribute:</p> <pre>&lt;... r:id="rId1" /&gt;</pre> <p>The markup specifies the associated relationship part with relationship ID rId1 contains the corresponding relationship information for the parent XML element. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |

#### 14.11.4 Changed attribute for objectEmbed element (Part 1, §17.3.3.20)

| Attributes                                                                                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship to Embedded Object Data)<br><br>Namespace:<br>.../officeDocument/2006/relationships | <p>Specifies the relationship ID for the relationship that targets the Embedded Object Part containing the embedded object data.</p> <p>The specified relationship shall be of type http://schemas.openxmlformats.org/officeDocument/2006/oleObject or the document shall be considered non-conformant.</p> <p>[Example: Consider an XML element which has the following id attribute:</p> <pre>&lt;... r:id="rId1" /&gt;</pre> <p>The markup specifies the associated relationship part with relationship ID rId1 targets the part containing the corresponding embedded object information. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |

#### 14.11.5 Changed attribute for objectLink element (Part 1, §17.3.3.21)

| Attributes                                                                                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship to Embedded Object Data)<br><br>Namespace:<br>.../officeDocument/2006/relationships | <p>Specifies the relationship ID for the relationship that targets the Embedded Object Part containing the embedded object data.</p> <p>The specified relationship shall be of type <code>http://schemas.openxmlformats.org/officeDocument/2006/oleObject</code> or the document shall be considered non-conformant.</p> <p>[<i>Example</i>: Consider an XML element which has the following id attribute:</p> <pre>&lt;... r:id="rId1" /&gt;</pre> <p>The markup specifies the associated relationship part with relationship ID rId1 targets the part containing the corresponding embedded object information. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |

#### 14.11.6 Changed attribute for bottom element (Part 1, §17.6.2)

| Attributes                                                                                                                       | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| bottomLeft (Custom Defined Bottom Left Border Relationship Reference)<br><br>Namespace:<br>.../officeDocument/2006/relationships | <p>Specifies the relationship ID for the relationship that contains the custom bottom left border image for the parent element. This custom border image is contained in a separate part within the WordprocessingML package.</p> <p>The relationship explicitly targeted by this attribute shall be of type <code>http://schemas.openxmlformats.org/officeDocument/2006/relationships/image</code> or the document shall be considered non-conformant.</p> <p>If this attribute is omitted, then no custom bottom left border shall be used.</p> <p>[<i>Example</i>: Consider the following WordprocessingML markup for a custom bottom left border in a document:</p> <pre>&lt;w:bottom w:val="custom" r:bottomLeft="rIdCustomBottomLeftBorder" .../&gt;</pre> <p>The id attribute in the relationship reference namespace specifies that the relationship with relationship ID rIdCustomBottomLeftBorder must contain the custom bottom left border image for the document. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |
| bottomRight (Custom Defined                                                                                                      | Specifies the relationship ID for the relationship that contains the custom bottom right border image for the parent element. This custom border image is contained in a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

| Attributes                                                                                                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Bottom Right Border Relationship Reference)</p> <p>Namespace:<br/>.../officeDocument/2006/relationships</p>       | <p>separate part within the WordprocessingML package.</p> <p>The relationship explicitly targeted by this attribute shall be of type <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/image">http://schemas.openxmlformats.org/officeDocument/2006/relationships/image</a> or the document shall be considered non-conformant.</p> <p>If this attribute is omitted, then no custom bottom right border shall be used.</p> <p>[<i>Example:</i> Consider the following WordprocessingML markup for a custom bottom right border in a document:</p> <pre>&lt;w:bottom w:val="custom" r:bottomRight="rIdCustomBottomRightBorder" .../&gt;</pre> <p>The id attribute in the relationship reference namespace specifies that the relationship with relationship ID rIdCustomBottomRightBorder must contain the custom bottom right border image for the document. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p>                                                                                                                 |
| <p>id (Custom Defined Border Relationship Reference)</p> <p>Namespace:<br/>.../officeDocument/2006/relationships</p> | <p>Specifies the relationship ID for the relationship that contains the custom border image for the parent element. This custom border image is contained in a separate part within the WordprocessingML package.</p> <p>The relationship explicitly targeted by this attribute shall be of type <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/image">http://schemas.openxmlformats.org/officeDocument/2006/relationships/image</a> or the document shall be considered non-conformant.</p> <p>If this attribute is omitted, then no custom border shall be used.</p> <p>[<i>Example:</i> Consider the following WordprocessingML markup for a custom bottom border in a document:</p> <pre>&lt;w:bottom w:val="custom" r:id="rIdCustomBottomBorder" .../&gt;</pre> <p>The id attribute in the relationship reference namespace specifies that the relationship with relationship ID rIdCustomBottomBorder must contain the custom bottom border image for the document. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |

#### 14.11.7 Changed attribute for left element (Part 1, §17.6.7)

| Attributes         | Description                                                                              |
|--------------------|------------------------------------------------------------------------------------------|
| id (Custom Defined | Specifies the relationship ID for the relationship that contains the custom border image |

| Attributes                                                                                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Border Relationship Reference)</p> <p>Namespace:<br/>.../officeDocument/2006/relationships</p> | <p>for the parent element. This custom border image is contained in a separate part within the WordprocessingML package.</p> <p>The relationship explicitly targeted by this attribute shall be of type <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/image">http://schemas.openxmlformats.org/officeDocument/2006/relationships/image</a> or the document shall be considered non-conformant.</p> <p>If this attribute is omitted, then no custom border shall be used.</p> <p>[Example: Consider the following WordprocessingML markup for a custom bottom border in a document:</p> <pre>&lt;w:bottom w:val="custom" r:id="rIdCustomBottomBorder" .../&gt;</pre> <p>The id attribute in the relationship reference namespace specifies that the relationship with relationship ID rIdCustomBottomBorder must contain the custom bottom border image for the document. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |

#### 14.11.8 Changed attribute for printerSettings element (Part 1, §17.6.14)

| Attributes                                                                                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>id (Relationship to Part)</p> <p>Namespace:<br/>.../officeDocument/2006/relationships</p> | <p>Specifies the relationship ID to a specified part.</p> <p>The specified relationship shall match the relationship type required by the parent element:</p> <ul style="list-style-type: none"> <li><a href="http://schemas.openxmlformats.org/officeDocument/2006/customXml">http://schemas.openxmlformats.org/officeDocument/2006/customXml</a> for the contentPart element</li> <li><a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/footer">http://schemas.openxmlformats.org/officeDocument/2006/relationships/footer</a> for the footerReference element</li> <li><a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/header">http://schemas.openxmlformats.org/officeDocument/2006/relationships/header</a> for the headerReference element</li> <li><a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/font">http://schemas.openxmlformats.org/officeDocument/2006/relationships/font</a> for the embedBold, embedBoldItalic, embedItalic, or embedRegular elements</li> <li><a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/printerSettings">http://schemas.openxmlformats.org/officeDocument/2006/relationships/printerSettings</a> for the printerSettings element</li> <li><a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink">http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink</a> for the longDesc or hyperlink element</li> </ul> <p>[Example: Consider an XML element which has the following id attribute:</p> <pre>&lt;... r:id="rId1" /&gt;</pre> <p>The markup specifies the associated relationship part with relationship ID rId1 contains</p> |

| Attributes | Description                                                                                                                                                                                                           |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <p>the corresponding relationship information for the parent XML element. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |

#### 14.11.9 Changed attribute for right element (Part 1, §17.6.15)

| Attributes                                                                                                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>id (Custom Defined Border Relationship Reference)</p> <p>Namespace:<br/>.../officeDocument/2006/relationships</p> | <p>Specifies the relationship ID for the relationship that contains the custom border image for the parent element. This custom border image is contained in a separate part within the WordprocessingML package.</p> <p>The relationship explicitly targeted by this attribute shall be of type <code>http://schemas.openxmlformats.org/officeDocument/2006/relationships/image</code> or the document shall be considered non-conformant.</p> <p>If this attribute is omitted, then no custom border shall be used.</p> <p>[Example: Consider the following WordprocessingML markup for a custom bottom border in a document:</p> <pre>&lt;w:bottom w:val="custom" r:id="rIdCustomBottomBorder" .../&gt;</pre> <p>The id attribute in the relationship reference namespace specifies that the relationship with relationship ID <code>rIdCustomBottomBorder</code> must contain the custom bottom border image for the document. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |

#### 14.11.10 Changed attribute for top element (Part 1, §17.6.21)

| Attributes                                                                                                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>id (Custom Defined Border Relationship Reference)</p> <p>Namespace:<br/>.../officeDocument/2006/relationships</p> | <p>Specifies the relationship ID for the relationship that contains the custom border image for the parent element. This custom border image is contained in a separate part within the WordprocessingML package.</p> <p>The relationship explicitly targeted by this attribute shall be of type <code>http://schemas.openxmlformats.org/officeDocument/2006/relationships/image</code> or the document shall be considered non-conformant.</p> <p>If this attribute is omitted, then no custom border shall be used.</p> <p>[Example: Consider the following WordprocessingML markup for a custom bottom border in a document:</p> |

| Attributes                                                                                                                                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                   | <p><code>&lt;w:bottom w:val="custom" r:id="rIdCustomBottomBorder" .../&gt;</code></p> <p>The id attribute in the relationship reference namespace specifies that the relationship with relationship ID <code>rIdCustomBottomBorder</code> must contain the custom bottom border image for the document. <i>end example</i></p> <p>The possible values for this attribute are defined by the <code>ST_RelationshipId</code> simple type (Part 1, §22.8.2.1).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p><code>topLeft</code> (Custom Defined Top Left Border Relationship Reference)</p> <p>Namespace:<br/>.../officeDocument/2006/relationships</p>   | <p>Specifies the relationship ID for the relationship that contains the custom top left border image for the parent element. This custom border image is contained in a separate part within the WordprocessingML package.</p> <p>The relationship explicitly targeted by this attribute shall be of type <code>http://schemas.openxmlformats.org/officeDocument/2006/relationships/image</code> or the document shall be considered non-conformant.</p> <p>If this attribute is omitted, then no custom top left border shall be used.</p> <p>[<i>Example:</i> Consider the following WordprocessingML markup for a custom top left border in a document:</p> <p><code>&lt;w:top w:val="custom" r:topLeft="rIdCustomTopLeftBorder" .../&gt;</code></p> <p>The id attribute in the relationship reference namespace specifies that the relationship with relationship ID <code>rIdCustomTopLeftBorder</code> must contain the custom top left border image for the document. <i>end example</i></p> <p>The possible values for this attribute are defined by the <code>ST_RelationshipId</code> simple type (Part 1, §22.8.2.1).</p> |
| <p><code>topRight</code> (Custom Defined Top Right Border Relationship Reference)</p> <p>Namespace:<br/>.../officeDocument/2006/relationships</p> | <p>Specifies the relationship ID for the relationship that contains the custom top right border image for the parent element. This custom border image is contained in a separate part within the WordprocessingML package.</p> <p>The relationship explicitly targeted by this attribute shall be of type <code>http://schemas.openxmlformats.org/officeDocument/2006/relationships/image</code> or the document shall be considered non-conformant.</p> <p>If this attribute is omitted, then no custom top right border shall be used when the parent element is instantiated.</p> <p>[<i>Example:</i> Consider the following WordprocessingML markup for a custom top right border in a document:</p> <p><code>&lt;w:top w:val="custom" r:topRight="rIdCustomTopRightBorder" ... /&gt;</code></p>                                                                                                                                                                                                                                                                                                                                |

| Attributes | Description                                                                                                                                                                                                                                                                                                                                          |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <p>The id attribute in the relationship reference namespace specifies that the relationship with relationship ID rIdCustomTopRightBorder must contain the custom top right border image for the document. <i>end example</i></p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |

#### 14.11.11 Changed attribute for embedBold element (Part 1, §17.8.3.3)

| Attributes                                                                                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>id (Relationship to Part)</p> <p>Namespace:<br/>.../officeDocument/2006/relationships</p> | <p>Specifies the relationship ID to a specified part.</p> <p>The specified relationship shall match the relationship type required by the parent element:</p> <p>http://schemas.openxmlformats.org/officeDocument/2006/customXml for the contentPart element</p> <p>http://schemas.openxmlformats.org/officeDocument/2006/relationships/footer for the footerReference element</p> <p>http://schemas.openxmlformats.org/officeDocument/2006/relationships/header for the headerReference element</p> <p>http://schemas.openxmlformats.org/officeDocument/2006/relationships/font for the embedBold, embedBoldItalic, embedItalic, or embedRegular elements</p> <p>http://schemas.openxmlformats.org/officeDocument/2006/relationships/printerSettings for the printerSettings element</p> <p>http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink for the longDesc or hyperlink element</p> <p>[Example: Consider an XML element which has the following id attribute:</p> <pre>&lt;... r:id="rId1" /&gt;</pre> <p>The markup specifies the associated relationship part with relationship ID rId1 contains the corresponding relationship information for the parent XML element. <i>end example</i></p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |

#### 14.11.12 Changed attribute for embedBoldItalic element (Part 1, §17.8.3.4)

| Attributes                                                                                   | Description                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>id (Relationship to Part)</p> <p>Namespace:<br/>.../officeDocument/2006/relationships</p> | <p>Specifies the relationship ID to a specified part.</p> <p>The specified relationship shall match the relationship type required by the parent element:</p> <p>http://schemas.openxmlformats.org/officeDocument/2006/customXml for the contentPart element</p> |

| Attributes | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ps         | <p>http://schemas.openxmlformats.org/officeDocument/2006/relationships/footer for the footerReference element</p> <p>http://schemas.openxmlformats.org/officeDocument/2006/relationships/header for the headerReference element</p> <p>http://schemas.openxmlformats.org/officeDocument/2006/relationships/font for the embedBold, embedBoldItalic, embedItalic, or embedRegular elements</p> <p>http://schemas.openxmlformats.org/officeDocument/2006/relationships/prin terSettings for the printerSettings element</p> <p>http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyper link for the longDesc or hyperlink element</p> <p>[Example: Consider an XML element which has the following id attribute:</p> <pre>&lt;... r:id="rId1" /&gt;</pre> <p>The markup specifies the associated relationship part with relationship ID rId1 contains the corresponding relationship information for the parent XML element. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |

#### 14.11.13 Changed attribute for embedItalic element (Part 1, §17.8.3.5)

| Attributes                                                                                | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship to Part)<br><br>Namespace:<br>.../officeDocument /2006/relationshi<br>ps | <p>Specifies the relationship ID to a specified part.</p> <p>The specified relationship shall match the relationship type required by the parent element:</p> <p>http://schemas.openxmlformats.org/officeDocument/2006/customXml for the contentPart element</p> <p>http://schemas.openxmlformats.org/officeDocument/2006/relationships/footer for the footerReference element</p> <p>http://schemas.openxmlformats.org/officeDocument/2006/relationships/header for the headerReference element</p> <p>http://schemas.openxmlformats.org/officeDocument/2006/relationships/font for the embedBold, embedBoldItalic, embedItalic, or embedRegular elements</p> <p>http://schemas.openxmlformats.org/officeDocument/2006/relationships/prin terSettings for the printerSettings element</p> <p>http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyper link for the longDesc or hyperlink element</p> <p>[Example: Consider an XML element which has the following id attribute:</p> <pre>&lt;... r:id="rId1" /&gt;</pre> <p>The markup specifies the associated relationship part with relationship ID rId1 contains the corresponding relationship information for the parent XML element. <i>end example</i>]</p> |



| Attributes | Description                                                                                                  |
|------------|--------------------------------------------------------------------------------------------------------------|
|            | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1). |

#### 14.11.14 Changed attribute for embedRegular element (Part 1, §17.8.3.6)

| Attributes                                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>id</b> (Relationship to Part)<br><br>Namespace:<br>.../officeDocument/2006/relationships | <p>Specifies the relationship ID to a specified part.</p> <p>The specified relationship shall match the relationship type required by the parent element:</p> <ul style="list-style-type: none"> <li>http://schemas.openxmlformats.org/officeDocument/2006/customXml for the contentPart element</li> <li>http://schemas.openxmlformats.org/officeDocument/2006/relationships/footer for the footerReference element</li> <li>http://schemas.openxmlformats.org/officeDocument/2006/relationships/header for the headerReference element</li> <li>http://schemas.openxmlformats.org/officeDocument/2006/relationships/font for the embedBold, embedBoldItalic, embedItalic, or embedRegular elements</li> <li>http://schemas.openxmlformats.org/officeDocument/2006/relationships/printerSettings for the printerSettings element</li> <li>http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink for the longDesc or hyperlink element</li> </ul> <p>[Example: Consider an XML element which has the following id attribute:</p> <pre>&lt;... r:id="rId1" /&gt;</pre> <p>The markup specifies the associated relationship part with relationship ID rId1 contains the corresponding relationship information for the parent XML element. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |

#### 14.11.15 Changed attribute for footerReference element (Part 1, §17.10.2)

| Attributes                                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>id</b> (Relationship to Part)<br><br>Namespace:<br>.../officeDocument/2006/relationships | <p>Specifies the relationship ID to a specified part.</p> <p>The specified relationship shall match the relationship type required by the parent element:</p> <ul style="list-style-type: none"> <li>http://schemas.openxmlformats.org/officeDocument/2006/customXml for the contentPart element</li> <li>http://schemas.openxmlformats.org/officeDocument/2006/relationships/footer for the footerReference element</li> <li>http://schemas.openxmlformats.org/officeDocument/2006/relationships/header</li> </ul> |

| Attributes | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <p>r for the headerReference element<br/> <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/font">http://schemas.openxmlformats.org/officeDocument/2006/relationships/font</a><br/> for the embedBold, embedBoldItalic, embedItalic, or embedRegular elements<br/> <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/printerSettings">http://schemas.openxmlformats.org/officeDocument/2006/relationships/printerSettings</a><br/> for the printerSettings element<br/> <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink">http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink</a><br/> link for the longDesc or hyperlink element</p> <p>[Example: Consider an XML element which has the following id attribute:</p> <pre>&lt;... r:id="rId1" /&gt;</pre> <p>The markup specifies the associated relationship part with relationship ID rId1 contains the corresponding relationship information for the parent XML element. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |

#### 14.11.16 Changed attribute for headerReference element (Part 1, §17.10.5)

| Attributes                                                                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship to Part)<br><br>Namespace:<br>.../officeDocument/2006/relationships | <p>Specifies the relationship ID to a specified part.</p> <p>The specified relationship shall match the relationship type required by the parent element:</p> <p><a href="http://schemas.openxmlformats.org/officeDocument/2006/customXml">http://schemas.openxmlformats.org/officeDocument/2006/customXml</a> for the contentPart element<br/> <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/footer">http://schemas.openxmlformats.org/officeDocument/2006/relationships/footer</a> for the footerReference element<br/> <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/header">http://schemas.openxmlformats.org/officeDocument/2006/relationships/header</a> for the headerReference element<br/> <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/font">http://schemas.openxmlformats.org/officeDocument/2006/relationships/font</a> for the embedBold, embedBoldItalic, embedItalic, or embedRegular elements<br/> <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/printerSettings">http://schemas.openxmlformats.org/officeDocument/2006/relationships/printerSettings</a> for the printerSettings element<br/> <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink">http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink</a> for the longDesc or hyperlink element</p> <p>[Example: Consider an XML element which has the following id attribute:</p> <pre>&lt;... r:id="rId1" /&gt;</pre> <p>The markup specifies the associated relationship part with relationship ID rId1 contains the corresponding relationship information for the parent XML element. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type</p> |

| Attributes | Description          |
|------------|----------------------|
|            | (Part 1, §22.8.2.1). |

#### 14.11.17 Changed attribute for dataSource element (Part 1, §17.14.9)

| Attributes                                                                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship to Part)<br><br>Namespace:<br>.../officeDocument/2006/relationships | <p>Specifies the relationship ID to a specified part.</p> <p>The specified relationship shall match the relationship type required by the parent element:</p> <ul style="list-style-type: none"> <li>http://schemas.openxmlformats.org/officeDocument/2006/customXml for the contentPart element</li> <li>http://schemas.openxmlformats.org/officeDocument/2006/relationships/footer for the footerReference element</li> <li>http://schemas.openxmlformats.org/officeDocument/2006/relationships/header for the headerReference element</li> <li>http://schemas.openxmlformats.org/officeDocument/2006/relationships/font for the embedBold, embedBoldItalic, embedItalic, or embedRegular elements</li> <li>http://schemas.openxmlformats.org/officeDocument/2006/relationships/printerSettings for the printerSettings element</li> <li>http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink for the longDesc or hyperlink element</li> </ul> <p>[Example: Consider an XML element which has the following id attribute:</p> <pre>&lt;... r:id="rId1" /&gt;</pre> <p>The markup specifies the associated relationship part with relationship ID rId1 contains the corresponding relationship information for the parent XML element. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |

#### 14.11.18 Changed attribute for headerSource element (Part 1, §17.14.16)

| Attributes                                                                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship to Part)<br><br>Namespace:<br>.../officeDocument/2006/relationships | <p>Specifies the relationship ID to a specified part.</p> <p>The specified relationship shall match the relationship type required by the parent element:</p> <ul style="list-style-type: none"> <li>http://schemas.openxmlformats.org/officeDocument/2006/customXml for the contentPart element</li> <li>http://schemas.openxmlformats.org/officeDocument/2006/relationships/footer for the footerReference element</li> <li>http://schemas.openxmlformats.org/officeDocument/2006/relationships/header for the headerReference element</li> <li>http://schemas.openxmlformats.org/officeDocument/2006/relationships/font</li> </ul> |

| Attributes | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <p>for the embedBold, embedBoldItalic, embedItalic, or embedRegular elements<br/> <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/printerSettings">http://schemas.openxmlformats.org/officeDocument/2006/relationships/printerSettings</a> for the printerSettings element<br/> <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink">http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink</a> for the longDesc or hyperlink element</p> <p>[Example: Consider an XML element which has the following id attribute:</p> <pre>&lt;... r:id="rId1" /&gt;</pre> <p>The markup specifies the associated relationship part with relationship ID rId1 contains the corresponding relationship information for the parent XML element. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |

#### 14.11.19 Changed attribute for recipientData element (Part 1, §17.14.28)

| Attributes                                                                                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>id (Relationship to Part)</p> <p>Namespace:<br/> <a href="#">.../officeDocument/2006/relationships</a></p> | <p>Specifies the relationship ID to a specified part.</p> <p>The specified relationship shall match the relationship type required by the parent element:</p> <p><a href="http://schemas.openxmlformats.org/officeDocument/2006/customXml">http://schemas.openxmlformats.org/officeDocument/2006/customXml</a> for the contentPart element<br/> <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/footer">http://schemas.openxmlformats.org/officeDocument/2006/relationships/footer</a> for the footerReference element<br/> <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/header">http://schemas.openxmlformats.org/officeDocument/2006/relationships/header</a> for the headerReference element<br/> <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/font">http://schemas.openxmlformats.org/officeDocument/2006/relationships/font</a> for the embedBold, embedBoldItalic, embedItalic, or embedRegular elements<br/> <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/printerSettings">http://schemas.openxmlformats.org/officeDocument/2006/relationships/printerSettings</a> for the printerSettings element<br/> <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink">http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink</a> for the longDesc or hyperlink element</p> <p>[Example: Consider an XML element which has the following id attribute:</p> <pre>&lt;... r:id="rId1" /&gt;</pre> <p>The markup specifies the associated relationship part with relationship ID rId1 contains the corresponding relationship information for the parent XML element. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |

### 14.11.20 Changed attribute for src element (Part 1, §17.14.30)

| Attributes                                                                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship to Part)<br><br>Namespace:<br>.../officeDocument/2006/relationships | <p>Specifies the relationship ID to a specified part.</p> <p>The specified relationship shall match the relationship type required by the parent element:</p> <ul style="list-style-type: none"> <li>http://schemas.openxmlformats.org/officeDocument/2006/customXml for the contentPart element</li> <li>http://schemas.openxmlformats.org/officeDocument/2006/relationships/footer for the footerReference element</li> <li>http://schemas.openxmlformats.org/officeDocument/2006/relationships/header for the headerReference element</li> <li>http://schemas.openxmlformats.org/officeDocument/2006/relationships/font for the embedBold, embedBoldItalic, embedItalic, or embedRegular elements</li> <li>http://schemas.openxmlformats.org/officeDocument/2006/relationships/printerSettings for the printerSettings element</li> <li>http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink for the longDesc or hyperlink element</li> </ul> <p>[Example: Consider an XML element which has the following id attribute:</p> <pre>&lt;... r:id="rId1" /&gt;</pre> <p>The markup specifies the associated relationship part with relationship ID rId1 contains the corresponding relationship information for the parent XML element. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |

### 14.11.21 Changed attribute for attachedTemplate element (Part 1, §17.15.1.6)

| Attributes                                                                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship to Part)<br><br>Namespace:<br>.../officeDocument/2006/relationships | <p>Specifies the relationship ID to a specified part.</p> <p>The specified relationship shall match the relationship type required by the parent element:</p> <ul style="list-style-type: none"> <li>http://schemas.openxmlformats.org/officeDocument/2006/customXml for the contentPart element</li> <li>http://schemas.openxmlformats.org/officeDocument/2006/relationships/footer for the footerReference element</li> <li>http://schemas.openxmlformats.org/officeDocument/2006/relationships/header for the headerReference element</li> <li>http://schemas.openxmlformats.org/officeDocument/2006/relationships/font for the embedBold, embedBoldItalic, embedItalic, or embedRegular elements</li> <li>http://schemas.openxmlformats.org/officeDocument/2006/relationships/printerSettings for the printerSettings element</li> <li>http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink for the longDesc or hyperlink element</li> </ul> |

| Attributes | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <p>link for the longDesc or hyperlink element</p> <p>[Example: Consider an XML element which has the following id attribute:</p> <pre>&lt;... r:id="rId1" /&gt;</pre> <p>The markup specifies the associated relationship part with relationship ID rId1 contains the corresponding relationship information for the parent XML element. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |

#### 14.11.22 Changed attribute for saveThroughXslt element (Part 1, §17.15.1.76)

| Attributes                                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (XSL Transformation Location)<br><br>Namespace:<br>.../officeDocument/2006/relationships | <p>Specifies an explicit relationship to the location of the XSL Transformation which shall be applied.</p> <p>The relationship targeted by this element shall be of type <code>http://schemas.openxmlformats.org/officeDocument/2006/relationships/transform</code>, or this document shall be declared non-conformant.</p> <p>[Example: Consider a XML document that must have the XSL transform located at <code>c:\Example Transform.xslt</code> applied when the document is saved as a single XML file. This requirement would be specified using the following WordprocessingML in the document settings:</p> <pre>&lt;w:saveThroughXslt r:id="rId5" /&gt;</pre> <p>The saveThroughXslt element specifies that the relationship located at rId5 must be used when saving as a single XML file in this case, that relationship must target <code>c:\Example Transform.xslt</code>. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |

#### 14.11.23 Changed attribute for longDesc element (Part 1, §17.15.2.23)

| Attributes                                                                           | Description                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship to Part)<br><br>Namespace:<br>.../officeDocument/2006/relationships | <p>Specifies the relationship ID to a specified part.</p> <p>The specified relationship shall match the relationship type required by the parent element:</p> <p><code>http://schemas.openxmlformats.org/officeDocument/2006/customXml</code> for the contentPart element</p> <p><code>http://schemas.openxmlformats.org/officeDocument/2006/relationships/footer</code></p> |

| Attributes | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <p>for the footerReference element<br/> <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/header">http://schemas.openxmlformats.org/officeDocument/2006/relationships/header</a> for the headerReference element<br/> <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/font">http://schemas.openxmlformats.org/officeDocument/2006/relationships/font</a> for the embedBold, embedBoldItalic, embedItalic, or embedRegular elements<br/> <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/printerSettings">http://schemas.openxmlformats.org/officeDocument/2006/relationships/printerSettings</a> for the printerSettings element<br/> <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink">http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink</a> for the longDesc or hyperlink element</p> <p>[Example: Consider an XML element which has the following id attribute:</p> <pre>&lt;... r:id="rId1" /&gt;</pre> <p>The markup specifies the associated relationship part with relationship ID rId1 contains the corresponding relationship information for the parent XML element. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |

#### 14.11.24 Changed attribute for sourceFileName element (Part 1, §17.15.2.39)

| Attributes                                                                                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>id (Relationship to Part)</p> <p>Namespace:<br/> <a href="#">.../officeDocument/2006/relationships</a></p> | <p>Specifies the relationship ID to a specified part.</p> <p>The specified relationship shall match the relationship type required by the parent element:</p> <p><a href="http://schemas.openxmlformats.org/officeDocument/2006/customXml">http://schemas.openxmlformats.org/officeDocument/2006/customXml</a> for the contentPart element<br/> <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/footer">http://schemas.openxmlformats.org/officeDocument/2006/relationships/footer</a> for the footerReference element<br/> <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/header">http://schemas.openxmlformats.org/officeDocument/2006/relationships/header</a> for the headerReference element<br/> <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/font">http://schemas.openxmlformats.org/officeDocument/2006/relationships/font</a> for the embedBold, embedBoldItalic, embedItalic, or embedRegular elements<br/> <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/printerSettings">http://schemas.openxmlformats.org/officeDocument/2006/relationships/printerSettings</a> for the printerSettings element<br/> <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink">http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink</a> for the longDesc or hyperlink element</p> <p>[Example: Consider an XML element which has the following id attribute:</p> <pre>&lt;... r:id="rId1" /&gt;</pre> <p>The markup specifies the associated relationship part with relationship ID rId1 contains the corresponding relationship information for the parent XML element. <i>end example</i>]</p> |



| Attributes | Description                                                                                                  |
|------------|--------------------------------------------------------------------------------------------------------------|
|            | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1). |

#### 14.11.25 Changed attribute for subDoc element (Part 1, §17.17.1.1)

| Attributes                                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>id</b> (Relationship to Part)<br><br>Namespace:<br>.../officeDocument/2006/relationships | <p>Specifies the relationship ID to a specified part.</p> <p>The specified relationship shall match the relationship type required by the parent element:</p> <ul style="list-style-type: none"> <li>http://schemas.openxmlformats.org/officeDocument/2006/customXml for the contentPart element</li> <li>http://schemas.openxmlformats.org/officeDocument/2006/relationships/ for the footerReference element</li> <li>http://schemas.openxmlformats.org/officeDocument/2006/relationships/header for the headerReference element</li> <li>http://schemas.openxmlformats.org/officeDocument/2006/relationships/font for the embedBold, embedBoldItalic, embedItalic, or embedRegular elements</li> <li>http://schemas.openxmlformats.org/officeDocument/2006/relationships/printerSettings for the printerSettings element</li> <li>http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink for the longDesc or hyperlink element</li> </ul> <p>[Example: Consider an XML element which has the following id attribute:</p> <pre>&lt;... r:id="rId1" /&gt;</pre> <p>The markup specifies the associated relationship part with relationship ID rId1 contains the corresponding relationship information for the parent XML element. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |

#### 14.11.26 Changed attribute for altChunk element (Part 1, §17.17.2.1)

| Attributes                                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>id</b> (Relationship to Part)<br><br>Namespace:<br>.../officeDocument/2006/relationships | <p>Specifies the relationship ID to a specified part containing alternate content for import.</p> <p>If the specified relationship does not match the relationship type required by the parent element, then this document shall be considered to be non-conformant.</p> <p>[Example: Consider an XML element which has the following id attribute:</p> <pre>&lt;... r:id="rId1" /&gt;</pre> |



| Attributes | Description                                                                                                                                                                                                                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <p>The markup specifies the associated relationship part with relationship ID rId1 contains the corresponding relationship information for the parent XML element. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (§Part 1, §22.8.2.1).</p> |

STANDARDSISO.COM : Click to view the full PDF of ISO/IEC 29500-4:2011

# 15. SpreadsheetML Reference Material

## 15.1 Table of Contents

This subclause is informative.

|             |                                                                                     |            |
|-------------|-------------------------------------------------------------------------------------|------------|
| <b>15.2</b> | <b>Workbook</b>                                                                     | <b>208</b> |
| 15.2.1      | Additional attribute for fileSharing element (Part 1, §18.2.12)                     | 208        |
| 15.2.2      | Additional attribute for webPublishing element (Part 1, §18.2.24)                   | 209        |
| 15.2.3      | Additional attributes for workbookProtection element (Part 1, §18.2.29)             | 209        |
| <b>15.3</b> | <b>Worksheets</b>                                                                   | <b>215</b> |
| 15.3.1      | Worksheets                                                                          | 215        |
| 15.3.1.1    | legacyDrawing (Legacy Drawing Reference)                                            | 215        |
| 15.3.1.2    | legacyDrawingHF (Legacy Drawing Reference in Header Footer)                         | 216        |
| 15.3.1.3    | Additional attribute for dataConsolidate element (Part 1, §18.3.1.29)               | 216        |
| 15.3.1.4    | Additional attributes for protectedRange element (Part 1, §18.3.1.71)               | 217        |
| 15.3.1.5    | Additional attribute for sheetProtection element (Part 1, §18.3.1.84)               | 217        |
| 15.3.1.6    | Additional attribute for sheetProtection element (Part 1, §18.3.1.85)               | 218        |
| 15.3.2      | AutoFilter Settings                                                                 | 218        |
| 15.3.2.1    | Attributes with modified descriptions for dynamicFilter element (Part 1, §18.3.2.5) | 218        |
| <b>15.4</b> | <b>Styles</b>                                                                       | <b>219</b> |
| 15.4.1      | left (Leading Edge Border)                                                          | 219        |
| 15.4.2      | right (Trailing Edge Border)                                                        | 220        |
| <b>15.5</b> | <b>Pivot Tables</b>                                                                 | <b>220</b> |
| 15.5.1      | Pivot Tables                                                                        | 220        |
| 15.5.1.1    | Additional attribute for pivotCacheDefinition element (Part 1, §18.10.1.67)         | 220        |
| <b>15.6</b> | <b>External Data Connections</b>                                                    | <b>220</b> |
| 15.6.1      | Additional attribute for textPr element (Part 1, §18.13.12)                         | 220        |
| <b>15.7</b> | <b>Simple Types</b>                                                                 | <b>221</b> |
| 15.7.1      | Additional enumeration values for ST_PivotAreaType (Part 1, §18.18.58)              | 221        |
| 15.7.2      | ST_UnsignedShortHex (Unsigned Short Hex)                                            | 221        |

End of informative text.

## 15.2 Workbook

### 15.2.1 Additional attribute for fileSharing element (Part 1, §18.2.12)

The following additional attributes can be specified for a document of a transitional conformance class:

| Attributes                                       | Description                                                                                                                                                                                                                                                                                                                                    |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| reservationPassword (Write Reservation Password) | <p>Specifies the legacy hash of the password required for editing this workbook.</p> <p>The hash is generated using the logic defined in the revisionsPassword attribute of the workbookProtection element (Part 1, §18.2.29).</p> <p>The possible values for this attribute are defined by the ST_UnsignedShortHex simple type (§15.7.2).</p> |

### 15.2.2 Additional attribute for webPublishing element (Part 1, §18.2.24)

The following additional attributes can be specified for a document of a transitional conformance class:

| Attributes           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| codePage (Code Page) | <p>This attribute is used only for compatibility with the existing corpus of binary documents, and is ignored if the characterSet attribute is present. Specifies the encoding the application uses when a Web page is saved. A code page is a table that relates the binary character codes used by a program to keys on the keyboard or to the appearance of characters on the display. Code pages are a means of providing support for the languages used in different countries.</p> <p>[Note: There are a number of code page technologies. One example of potential values can be found at: <a href="http://www.unicode.org/Public/MAPPINGS/">http://www.unicode.org/Public/MAPPINGS/</a> end note]</p> <p>The default value for this attribute is the workbook's encoding.</p> <p>The possible values for this attribute are defined by the W3C XML Schema unsignedInt datatype.</p> |

### 15.2.3 Additional attributes for workbookProtection element (Part 1, §18.2.29)

The following additional attributes can be specified for a document of a transitional conformance class:

| Attributes                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| revisionsPassword (Legacy Revisions Password) | <p>Specifies the legacy hash of the password required for unlocking revisions in this workbook. The hash is generated from an 8-bit wide character. The input string shall be in UTF-16LE format (if there is a leading BOM character (U+FEFF) in the encoded password it is removed before hash calculation), and these 16-bit Unicode characters shall be converted down to 8 bits before the hash is computed, using the following logic:</p> <p>[Note: This legacy conversion attempts to fit UTF-16 encoded characters into a single-byte character set. As such, if the input string uses characters from multiple character sets, many characters are unmapped in the destination character set and take on the default value, 0x3F. For this reason, it is recommended that applications choose a character set which maps the maximum number of characters from the input string and explicitly declare the character set used in the revisionsCharacterSet attribute. Not</p> |

| Attributes | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <p>doing so will inhibit interoperability. <i>end note</i>]</p> <p>For SpreadsheetML password hash purposes, Unicode UTF-16 input code points are converted to a single or double byte character set.</p> <p>Code points with no representation in the target character set are replaced with Unicode character 0x3f (?).</p> <p>The values permitted by this attribute are names and aliases listed in the IANA character set listing found at <a href="http://www.iana.org/assignments/character-sets">http://www.iana.org/assignments/character-sets</a>.<br/>For single byte character sets, each Unicode code point is replaced by a single byte or 0x3f if an appropriate character doesn't exist in the character set.</p> <p>For double byte character sets, each Unicode code point is replaced by either a single byte, or a two byte sequence, depending on the input character, or 0x3f if an appropriate character doesn't exist in the character set. In our tables the target is a single byte sequence if the most significant byte is 0x00, otherwise it is a double byte sequence, with the lead byte being the most significant byte.</p> <p>To convert, first check if conversion is being done to a single or double byte code page and load the appropriate WCTABLE code page table.</p> <p>For each input character, look up the code point in the WCTABLE. There are 3 possibilities: Not found, single byte, or double byte.</p> <ul style="list-style-type: none"> <li>• If the input character is not found, append 0x3f and continue to the next character.</li> <li>• If the result is a single byte, check to make sure the entry in the MBTABLE matches the input. If it matches, append the single byte to the output. If it does not match, append 0x3f to the output.</li> <li>• If the result is a double byte, check to make sure the entry in the DBCSEENTRY table for the appropriate lead byte matches the input character. If it matches, append the lead byte and trail byte to the output. If it does not match, append 0x3f to the output.</li> </ul> <p>The following pseudocode describes how this conversion should be done:</p> <pre> int WideCharToMultiByte(wchar_t* wszInput, byte* szOutput) {     // Remember output start so we can return length     byte* szOutputStart = szOutput;      // Load Character Set Tables and determine     // double/single byte nature.     // This will depend on how the character sets are </pre> |

| Attributes | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <pre> represented on // the target machine. TABLECLASS represents some abstract // representation of this structure here. TABLECLASS pTables = LoadCharacterSetTables(); Bool bDoubleByte = IsCharacterSetDoubleByte();  while (*wszInput != 0) {     if (bDoubleByte)         szOutput = AppendDoubleByte(pTables, *wszInput, szOutput);     else         szOutput = AppendSingleByte(pTables, *wszInput, szOutput);      // Read next input wchar_t     wszInput++; }  // Null terminate the output *szOutput = 0;  // Return output length return szOutput - szOutputStart; }  byte* AppendSingleByte(TABLECLASS pTables, wchar_t wcIn, byte* szOutput) {     // Look up byte that we want to append.     byte bOut = pTables-&gt;LookUpSingleByte(wcIn);      // Make sure that bOut matches the input, otherwise use ?     // (ie: no best fit behavior allowed)     if (wcIn != pTables-&gt;LookUpWideChar(bOut))         bOut = 0x3f;      *szOutput = bOut;     szOutput++;     return szOutput; }  byte* AppendDoubleByte(TABLECLASS pTables, wchar_t wcIn, byte* szOutput) {     // Look up bytes that we want to append.     UINT16 bytesOut = pTables-&gt;LookUpDoubleByte(wcIn); </pre> |

| Attributes | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <pre> // See if it is a single or double byte sequence if (bytesOut &amp; 0xFF00) {     // It is a double byte sequence     // Make sure that bytesOut matches the input, otherwise use ?     // (ie: no best fit behavior allowed)     if (wcIn != pTables-&gt;LookUpWideChar(bytesOut))     {         // Use ?, it will be added below         bytesOut = 0x003f;     }     else     {         // It matched, use the lead byte we found         // trail byte will be added below         *szOutput = bytesOut &gt;&gt; 8;         szOutput++;     } } else {     // It is a single byte sequence     // Make sure that bytesOut matches the input, otherwise use ?     // (ie: no best fit behavior allowed)     if (wcIn != pTables-&gt;LookUpWideChar(bytesOut &amp; 0xFF))         bytesOut = 0x003f; }  // Add the single or trail byte *szOutput = bytesOut &amp; 0xFF; szOutput++;  return szOutput; }  class pTables {     // Construction depends on how you choose to store &amp; load the     // table files      byte LookUpSingleByte(wchar_t wcIn)     {         // How you access the table depends on your storage mechanism.         // Look up the line in WCTABLE where the first column </pre> |

| Attributes | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <pre> matches wcIn,     // and then return the byte value from the second column.     if (exists WCTABLE{wcIn})         return WCTABLE{wcIn}.SecondColumn;      // If it doesn't exist, return ?     return 0x3f; }  UINT16 LookUpDoubleByte(wchar_t wcIn) {     // How you access the table depends on your storage mechanism.     // Look up the line in WCTABLE where the first column matches wcIn,     // and then return the double byte value from the second column.     if (exists WCTABLE{wcIn})         return WCTABLE{wcIn}.SecondColumn;      // If it doesn't exist, return ?     return 0x003f; }  // Overload that looks up wide chars from single byte code points. wchar_t LookUpWideChar(byte bIn) {     // How you access the table depends on your storage mechanism.     // Look up the line in MBTABLE where the first column matches bIn,     // and then return the wchar_t value from the second column.     if (exists MBTABLE{bIn})         return MBTABLE{bIn}.SecondColumn;      // If it doesn't exist, return ?     return 0x003f; }  // Overload that looks up wide chars from double byte code points wchar_t LookUpWideChar(UINT16 bytesIn) {     // How you access the table depends on your storage mechanism. </pre> |

| Attributes | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <pre> // First find the DBCSTABLE where the LeadByte matches // the lead (most significant) input byte. if (exists DBCSTABLE{bytesIn &gt;&gt; 8}) {     DbcTable = DBCSTABLE{bytesIn &gt;&gt; 8};      // Look up the line in DbcTable where the first column     // matches the input trail (least significant) byte,     // and then return the wchar_t value from the second column.     if (exists DbcTable{bytesIn &amp; 0xFF})         return DbcTable{bytesIn &amp; 0xFF}.SecondColumn; }  // Either the lead byte table or specific trail byte // doesn't exist in the table, return ? return 0x003f; } } </pre> <p>The resulting value is hashed using the low-order word algorithm defined in §14.7.1. This step assumes that all words are unsigned, the word size is two bytes, and that bit-level shift-left/shift-right operations shift in the direction of the highest-order and lowest-order bit, respectively. [Example: 0x61 SHR 1 is 0xC2, as 01100001 shifted one position in the direction of its highest-order bit is 11000010. end example]</p> <p>[Example: This algorithm can be represented by the following pseudocode:</p> <pre> // Function Input: // szPassword: NULL terminated C-Style string // cchPassword: The number of characters in szPassword (not including the NULL terminator) unsigned_short GetPasswordHash(const char *szPassword, int cchPassword) {     unsigned_short wPasswordHash;     const char *pch;      wPasswordHash = 0;      if (cchPassword &gt; 0)     {         pch = &amp;szPassword[cchPassword];         while (pch-- != szPassword)         {             wPasswordHash = ((wPasswordHash &gt;&gt; 14) &amp; 0x01)   ((wPasswordHash &lt;&lt; 1) &amp; 0x7fff); </pre> |



| Attributes                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                             | <pre> wPasswordHash ^= *pch; } wPasswordHash = ((wPasswordHash &gt;&gt; 14) &amp; 0x01)   ((wPasswordHash &lt;&lt; 1) &amp; 0x7fff); wPasswordHash ^= cchPassword; wPasswordHash ^= (0x8000   ('N' &lt;&lt; 8)   'K'); }  return(wPasswordHash); } end example] </pre> <p>The possible values for this attribute are defined by the ST_UnsignedShortHex simple type (§15.7.2).</p>                                |
| revisionsPassword<br>CharacterSet<br>(Revisions Password<br>Character Set)  | <p>Name of the character set associated with the legacy revisionsPassword hash. The values permitted by this attribute are names and aliases listed in the IANA CHARACTER SETS listing found at <a href="http://www.iana.org/assignments/character-sets">http://www.iana.org/assignments/character-sets</a>.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| workbookPasswor<br>d (Legacy Workbook<br>Password)                          | <p>Specifies the legacy hash of the password required for unlocking revisions in this workbook.</p> <p>The hash is generated using the logic defined in the preceding revisionsPassword attribute.</p> <p>The possible values for this attribute are defined by the ST_UnsignedShortHex simple type (§15.7.2).</p>                                                                                                |
| workbookPasswor<br>dCharacterSet<br>(Workbook<br>Password Character<br>Set) | <p>Name of the character set associated with the workbookPassword hash. The values permitted by this attribute are the names and aliases listed in the IANA CHARACTER SETS listing found at <a href="http://www.iana.org/assignments/character-sets">http://www.iana.org/assignments/character-sets</a>.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>     |

## 15.3 Worksheets

### 15.3.1 Worksheets

#### 15.3.1.1 legacyDrawing (Legacy Drawing Reference)

This element is present when the sheet contains drawing shapes defined by VML. In this case, the element contains an explicit relationship whose ID points to the part containing the VML definitions.

[Example:

```
<drawing r:id="rId1"/>
```

*end example]*

| Parent Elements                                                                                    |
|----------------------------------------------------------------------------------------------------|
| chartsheet (Part 1, §18.3.1.12); dialogsheets (Part 1, §18.3.1.34); worksheet (Part 1, §18.3.1.99) |

| Attributes                                              | Description                                                                                                                    |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship Id)                                    | This value references a relationship Id for the sheet. The relationship shall point to the part containing the VML definition. |
| Namespace:<br>.../officeDocument<br>/2006/relationships | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).                   |

[Note: The W3C XML Schema definition of this element's content model (CT\_LegacyDrawing) is located in §A.2.  
*end note]*

#### 15.3.1.2 legacyDrawingHF (Legacy Drawing Reference in Header Footer)

This element specifies the explicit relationship to the part containing the VML defining pictures rendered in the header / footer of the sheet.

| Parent Elements                                                                                    |
|----------------------------------------------------------------------------------------------------|
| chartsheet (Part 1, §18.3.1.12); dialogsheets (Part 1, §18.3.1.34); worksheet (Part 1, §18.3.1.99) |

| Attributes                                              | Description                                                                                                                    |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship Id)                                    | This value references a relationship Id for the sheet. The relationship shall point to the part containing the VML definition. |
| Namespace:<br>.../officeDocument<br>/2006/relationships | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).                   |

[Note: The W3C XML Schema definition of this element's content model (CT\_LegacyDrawing) is located in §A.2.  
*end note]*

#### 15.3.1.3 Additional attribute for dataConsolidate element (Part 1, §18.3.1.29)

The following additional attributes can be specified for a document of a transitional conformance class:

| Attributes                          | Description                                                                                                                               |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| leftLabels (Starting Column Labels) | Semantically equivalent to startLabels.<br><br>The possible values for this attribute are defined by the W3C XML Schema boolean datatype. |

#### 15.3.1.4 Additional attributes for protectedRange element (Part 1, §18.3.1.71)

The following additional attributes can be specified for a document of a transitional conformance class:

| Attributes                               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| password (Legacy Password)               | Specifies the legacy hash of the password required for editing this range.<br><br>The hash is generated using the logic defined in the revisionsPassword attribute of the workbookProtection element (Part 1, §18.2.29).<br><br>The possible values for this attribute are defined by the ST_UnsignedShortHex simple type (§15.7.2).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| securityDescriptor (Security Descriptor) | Optional setting to specify the relative security descriptor. The security descriptor defines user accounts who can edit this range without providing a password to access the range.<br><br>The format of a securityDescriptor is application defined; however, it is recommended that the following format be used for interoperability between implementations: <ul style="list-style-type: none"> <li><code>username@domain</code></li> </ul> <p>If multiple user accounts are specified in the securityDescriptor attribute, each account shall be delimited by parentheses.</p> <p>[Example: This example demonstrates two user accounts in the security descriptor attribute:</p> <pre>&lt;protectedRanges&gt;   &lt;protectedRange sqref="A1:C5" name="Range1"     securityDescriptor="(user1@iso.org)(user2@iso.org)"/&gt; &lt;/protectedRanges&gt;</pre> <p>end example]</p> <p>If an application is unable to resolve the meaning of the securityDescriptor, it shall treat the attribute as if it had been removed.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |

#### 15.3.1.5 Additional attribute for sheetProtection element (Part 1, §18.3.1.84)

The following additional attributes can be specified for a document of a transitional conformance class:

| Attributes             | Description                                                                                                                                                                                                                                                                                                                               |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| password<br>(Password) | <p>Specifies the hash of the password required for editing this chart sheet.</p> <p>The hash is generated using the logic defined in the revisionPassword attribute of the workbookProtection element (Part 1, §18.2.29).</p> <p>The possible values for this attribute are defined by the ST_UnsignedShortHex simple type (§15.7.2).</p> |

### 15.3.1.6 Additional attribute for sheetProtection element (Part 1, §18.3.1.85)

The following additional attributes can be specified for a document of a transitional conformance class:

| Attributes                 | Description                                                                                                                                                                                                                                                                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| password (Legacy Password) | <p>Specifies the legacy hash of the password required for editing this worksheet.</p> <p>The hash is generated using the logic defined in the revisionsPassword attribute of the workbookProtection element (Part 1, §18.2.29).</p> <p>The possible values for this attribute are defined by the ST_UnsignedShortHex simple type (§15.7.2).</p> |

## 15.3.2 AutoFilter Settings

### 15.3.2.1 Attributes with modified descriptions for dynamicFilter element (Part 1, §18.3.2.5)

The following attributes have modified descriptions when specified for a document of a transitional conformance class:

| Attributes         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| maxVal (Max Value) | <p>A maximum value for dynamic filter. maxVal/maxValIso shall be required for today, yesterday, tomorrow, nextWeek, thisWeek, lastWeek, nextMonth, thisMonth, lastMonth, nextQuarter, thisQuarter, lastQuarter, nextYear, thisYear, lastYear, and yearToDate.</p> <p>The above criteria are based on a value range. <i>[Example: If today's date is September 22nd, then the range for thisWeek is the values greater than or equal to September 17 and less than September 24. end example]</i> In the thisWeek range, the lower value is expressed using val or valIso. The higher value is expressed using maxVal or maxValIso.</p> <p>These dynamic filter shall not require val/valIso or maxVal/maxValIso:<br/>Q1, Q2, Q3, Q4,<br/>M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11 and M12.</p> <p>The above criteria shall not specify the range using val/valIso and maxVal/maxValIso because Q1 always starts from M1 to M3, and M1 is always January.</p> |

| Attributes         | Description                                                                                                                                                                                                                                                                                                 |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | <p>These types of dynamic filters shall use val and shall not use maxVal/maxValIso: aboveAverage and belowAverage.</p> <p>If maxValIso and maxVal are both present, maxValIso shall take precedence.</p> <p>The possible values for this attribute are defined by the W3C XML Schema double datatype.</p>   |
| val (Value)        | <p>A minimum numeric or serial date value for dynamic filter. (See description of valIso to understand when val is required.)</p> <p>If valIso and val are both present, valIso shall take precedence.</p> <p>The possible values for this attribute are defined by the W3C XML Schema double datatype.</p> |
| valIso (ISO Value) | <p>A minimum date value for dynamic filter. (See description of maxVal/maxValIso to understand when val/valIso is required.)</p> <p>The possible values for this attribute are defined by the W3C XML Schema dateTime datatype.</p>                                                                         |

## 15.4 Styles

### 15.4.1 left (Leading Edge Border)

Semantically equivalent to start (Part 1, §18.8.37).

| Parent Elements          |
|--------------------------|
| border (Part 1, §18.8.4) |

| Child Elements         | Subclause          |
|------------------------|--------------------|
| color (Data Bar Color) | Part 1, §18.3.1.15 |

| Attributes         | Description                                                                                                                                            |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| style (Line Style) | <p>The line style for this border.</p> <p>The possible values for this attribute are defined by the ST_BorderStyle simple type (Part 1, §18.18.3).</p> |

[Note: The W3C XML Schema definition of this element's content model (CT\_BorderPr) is located in §A.2. *end note*]

## 15.4.2 right (Trailing Edge Border)

Semantically equivalent to end (Part 1, §18.8.16).

| Parent Elements          |
|--------------------------|
| border (Part 1, §18.8.4) |

| Child Elements         | Subclause             |
|------------------------|-----------------------|
| color (Data Bar Color) | Part 1,<br>§18.3.1.15 |

| Attributes         | Description                                                                                                                                     |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| style (Line Style) | The line style for this border.<br><br>The possible values for this attribute are defined by the ST_BorderStyle simple type (Part 1, §18.18.3). |

[Note: The W3C XML Schema definition of this element's content model (CT\_BorderPr) is located in §A.2. *end note*]

## 15.5 Pivot Tables

### 15.5.1 Pivot Tables

#### 15.5.1.1 Additional attribute for pivotCacheDefinition element (Part 1, §18.10.1.67)

The following additional attributes can be specified for a document of a transitional conformance class:

| Attributes                                        | Description                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| refreshedDate<br>(PivotCache Last Refreshed Date) | Specifies the date when the cache was last refreshed. This attribute depends on whether the application exposes mechanisms via the user interface whereby the end-user can refresh the cache.<br><br>If refreshedDateIso and refreshedDate are both present, refreshedDateIso shall take precedence.<br><br>The possible values for this attribute are defined by the W3C XML Schema double datatype. |

## 15.6 External Data Connections

### 15.6.1 Additional attribute for textPr element (Part 1, §18.13.12)

The following additional attributes can be specified for a document of a transitional conformance class:

| Attributes           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| codePage (Code Page) | <p>Code page associated with the text file. This attribute is used only for backwards compatibility, and is ignored if the characterSet attribute is present.</p> <p>[Note: There are a number of code page technologies. One example of potential values can be found at: <a href="http://www.unicode.org/Public/MAPPINGS">http://www.unicode.org/Public/MAPPINGS</a> end note]</p> <p>The possible values for this attribute are defined by the W3C XML Schema unsignedInt datatype.</p> |

## 15.7 Simple Types

The following additional simple type information in the <http://schemas.openxmlformats.org/spreadsheetml/2006/main> namespace is used for documents of a transitional conformance class.

### 15.7.1 Additional enumeration values for ST\_PivotAreaType (Part 1, §18.18.58)

The following additional enumeration values can be specified for a document of a transitional conformance class.

| Enumeration Value                    | Description                        |
|--------------------------------------|------------------------------------|
| topRight (Top Corner, Trailing Edge) | Semantically equivalent to topEnd. |

### 15.7.2 ST\_UnsignedShortHex (Unsigned Short Hex)

This simple type defines the Hex representation of an unsigned short.

This simple type's contents are a restriction of the W3C XML Schema hexBinary datatype.

This simple type also specifies the following restrictions:

- This simple type's contents have a length of exactly 4 hexadecimal digit(s).

| Referenced By                                                                                                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| fileSharing@reservationPassword (§15.2.1); protectedRange@password (§15.3.1.4); sheetProtection@password (§15.3.1.5); sheetProtection@password (§15.3.1.6); workbookProtection@revisionsPassword (§15.2.3); workbookProtection@workbookPassword (§15.2.3) |

[Note: The W3C XML Schema definition of this simple type's content model ([ST\\_UnsignedShortHex](#)) is located in §A.2. end note]

## 15.8 Formulas

### 15.8.1 Attribute synonym for c element (Part 1, §18.6.1)

The following additional attribute can be specified for a document of a transitional conformance class:

| Attributes           | Description                                                                                                                            |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| ref (Cell Reference) | An A-1 style reference to a cell. The possible values for this attribute are defined by the ST_CellRef simple type (Part 1, §18.18.7). |

This attribute is semantically equivalent to r (Part 1, §18.6.1).

Only one or the other of r and ref can be defined in any given instance.

## 15.8.2 Additional representation for dates and times (Part 1, §18.17.4)

For a document of a transitional conformance class, each unique instant in SpreadsheetML time shall be stored as an ISO 8601-formatted string or as a serial value.

## 15.9 Changed attributes

The following attributes, which are defined in subclauses within Part 1, §18, “SpreadsheetML”, have different source relationships when used in documents of the Transitional conformance class:

### 15.9.1 Changed attribute for externalReference element (Part 1, §18.2.8)

| Attributes                                              | Description                                                                                                                                                                                                 |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship Id)                                    | Specifies a unique identifier that is used to identify a relationship to another part in the file. Relationship identifiers link the element definition with the part where data for the element is stored. |
| Namespace:<br>.../officeDocument<br>/2006/relationships | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).                                                                                                |

### 15.9.2 Changed attribute for pivotCache element (Part 1, §18.2.17)

| Attributes                                              | Description                                                                                                                                     |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship Id)                                    | Specifies the identifier to a pivot cache definition part where cached data is stored.                                                          |
| Namespace:<br>.../officeDocument<br>/2006/relationships | This attribute is required.<br><br>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1). |

### 15.9.3 Changed attribute for sheet element (Part 1, §18.2.19)

| Attributes                                              | Description                                                                                                                                     |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship Id)                                    | Specifies the identifier of the sheet part where the definition for this sheet is stored.                                                       |
| Namespace:<br>.../officeDocument<br>/2006/relationships | This attribute is required.<br><br>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1). |



### 15.9.4 Changed attribute for control element (Part 1, §18.3.1.19)

| Attributes                                                                          | Description                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship Id)<br><br>Namespace:<br>.../officeDocument<br>/2006/relationships | This relationship ID references an Embedded Control Data part that contains control-specific properties and state information about this particular embedded control.<br><br>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1). |

### 15.9.5 Changed attribute for controlPr element (Part 1, §18.3.1.20)

| Attributes                                                                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship ID for Embedded Control Properties)<br><br>Namespace:<br>.../officeDocument<br>/2006/relationships | <p>Specifies the relationship ID for the relationship which contains the properties for this embedded control. This property bag is contained in a separate part within the package.</p> <p>The relationship explicitly targeted by this attribute shall be of relationship type <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/control">http://schemas.openxmlformats.org/officeDocument/2006/relationships/control</a> or the document shall be considered non-conformant.</p> <p>If this attribute is omitted, then the embedded control shall be given no property bag when instantiated.</p> <p>[<i>Example:</i> Consider the following WordprocessingML markup for an embedded control in a document:</p> <pre>&lt;w:control r:id="rId5" w:id="CheckBox1" w:name="CheckBox1" w:shapeid="_x0000_s1027" w:class="shape" w:w="145" w:h="28" w:align="left"/&gt;</pre> <p>The id attribute in the relationship reference namespace specifies that the relationship with relationship ID rId5 must contain the property data for this embedded control. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |

### 15.9.6 Changed attribute for customPr element (Part 1, §18.3.1.22)

| Attributes                                                                          | Description                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship Id)<br><br>Namespace:<br>.../officeDocument<br>/2006/relationships | This relationship references the binary part containing the specified custom properties.<br><br>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1). |

**15.9.7 Changed attribute for dataRef element (Part 1, §18.3.1.30)**

| Attributes                                                                          | Description                                                                                                                                                                       |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (relationship Id)<br><br>Namespace:<br>.../officeDocument<br>/2006/relationships | Used only when the source range is external to this workbook.<br><br>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1). |

**15.9.8 Changed attribute for drawing element (Part 1, §18.3.1.36)**

| Attributes                                                                          | Description                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship id)<br><br>Namespace:<br>.../officeDocument<br>/2006/relationships | Relationship Id referencing a part containing DrawingML definitions for this worksheet.<br><br>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1). |

**15.9.9 Changed attribute for drawingHF element (Part 1, §18.3.1.37)**

| Attributes                                                                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship ID for Embedded Control Properties)<br><br>Namespace:<br>.../officeDocument<br>/2006/relationships | Specifies the relationship ID for the relationship to the DrawingML part that contains the drawing objects used in the header and footer. This DrawingML part is a separate part within the package.<br><br>[Example:<br><br><drawingHF r:id="rId2" lho="7" lhf="6"/><br><br>The id attribute in the relationship reference namespace specifies that the relationship with relationship ID rId5 must contain the drawing objects used in the header and footer. <i>end example</i> ]<br><br>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1). |

**15.9.10 Changed attribute for hyperlink element (Part 1, §18.3.1.47)**

| Attributes                                                                          | Description                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship Id)<br><br>Namespace:<br>.../officeDocument<br>/2006/relationships | Relationship Id in this sheet's relationships part, expressing the target location of the resource.<br><br>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1). |

### 15.9.11 Changed attribute for objectPr element (Part 1, §18.3.1.56)

| Attributes                                                                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship ID to Embedded Object Data)<br><br>Namespace:<br>.../officeDocument/2006/relationships | <p>Specifies the relationship ID for the relationship that targets the Embedded Object Part containing the embedded object data.</p> <p>The specified relationship shall be of type <code>http://schemas.openxmlformats.org/officeDocument/2006/oleObject</code> or the document shall be considered non-conformant.</p> <p>[<i>Example:</i> Consider an XML element which has the following id attribute:</p> <pre>&lt;... r:id="rId1" /&gt;</pre> <p>The markup specifies the associated relationship part with relationship ID rId1 targets the part containing the corresponding embedded object information. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |

### 15.9.12 Changed attribute for oleObject element (Part 1, §18.3.1.59)

| Attributes                                                                      | Description                                                                                                                                                                                             |
|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship Id)<br><br>Namespace:<br>.../officeDocument/2006/relationships | <p>Relationship Id of the relationship pointing to the object persistence part.</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |

### 15.9.13 Changed attribute for pageSetup element (Part 1, §18.3.1.63)

| Attributes                                                         | Description                                                                                                                                                                      |
|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Id)<br><br>Namespace:<br>.../officeDocument/2006/relationships | <p>Relationship Id of the devMode printer settings part.</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |

### 15.9.14 Changed attribute for pageSetup element (Part 1, §18.3.1.64)

| Attributes                                                         | Description                                                                                                                                                                      |
|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Id)<br><br>Namespace:<br>.../officeDocument/2006/relationships | <p>Relationship Id of the devMode printer settings part.</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |

| Attributes | Description |
|------------|-------------|
| ps         |             |

### 15.9.15 Changed attribute for picture element (Part 1, §18.3.1.67)

| Attributes                                                    | Description                                                                                                  |
|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| id (Relationship Id)                                          | Relationship Id pointing to the image part.                                                                  |
| Namespace:<br>.../officeDocument<br>/2006/relationships<br>ps | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1). |

### 15.9.16 Changed attribute for pivotSelection element (Part 1, §18.3.1.69)

| Attributes                                                    | Description                                                                                                  |
|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| id (Relationship Id)                                          | Relationship Id pointing to the particular PivotTable Part corresponding to this selection.                  |
| Namespace:<br>.../officeDocument<br>/2006/relationships<br>ps | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1). |

### 15.9.17 Changed attribute for tablePart element (Part 1, §18.3.1.94)

| Attributes                                                    | Description                                                                                                  |
|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| id (Relationship Id)                                          | This relationship Id is used to locate a particular table definition part.                                   |
| Namespace:<br>.../officeDocument<br>/2006/relationships<br>ps | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1). |

### 15.9.18 Changed attribute for pivotCacheDefinition element (Part 1, §18.10.1.67)

| Attributes                                                    | Description                                                                                                                             |
|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship Identifier)                                  | Specifies the unique identifier that corresponds to the related pivotCacheRecords part. See (Part 1, §18.10.1.68) for more information. |
| Namespace:<br>.../officeDocument<br>/2006/relationships<br>ps | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).                            |

### 15.9.19 Changed attribute for rangeSet element (Part 1, §18.10.1.79)

| Attributes           | Description                                                                             |
|----------------------|-----------------------------------------------------------------------------------------|
| id (Relationship Id) | Specifies the unique identifier of the Workbook part where the range set is stored. See |

| Attributes                                              | Description                                                                                                                                                        |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Namespace:<br>.../officeDocument<br>/2006/relationships | Workbook (Part 1, §18.2) for more information.<br><br>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1). |

### 15.9.20 Changed attribute for worksheetSource element (Part 1, §18.10.1.95)

| Attributes                                                                          | Description                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship Id)<br><br>Namespace:<br>.../officeDocument<br>/2006/relationships | Specifies the identifier to the Sheet part whose data is stored in the cache. See the Sheet section (Part 1, §18.2) for more information.<br><br>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1). |

### 15.9.21 Changed attribute for header element (Part 1, §18.11.1.1)

| Attributes                                                                          | Description                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship ID)<br><br>Namespace:<br>.../officeDocument<br>/2006/relationships | This is the ID that is used to find the corresponding log record of the changes made for this header.<br><br>Use the corresponding relationship expressed in the revisionHeaders part to locate the log record that lists the specific changes.<br><br>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1). |

### 15.9.22 Changed attribute for externalBook element (Part 1, §18.14.7)

| Attributes                                                                                                    | Description                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship to supporting book file path)<br><br>Namespace:<br>.../officeDocument<br>/2006/relationships | Relationship ID that references a link in the relationships collection. The target attribute in the associated relationship will specify the worksheet XML file in the current SpreadsheetML document ZIP archive that makes use of this externalbook.<br><br>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1). |

### 15.9.23 Changed attribute for oleLink element (Part 1, §18.14.11)

| Attributes                                      | Description                                                                                                                                                                                                                                                                           |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Object Link Relationship)<br><br>Namespace: | Relationship ID that references a link in the relationships collection. The target attribute in the associated relationship will specify the external file name used for this oleLink.<br><br>The possible values for this attribute are defined by the ST_RelationshipId simple type |

| Attributes                            | Description          |
|---------------------------------------|----------------------|
| .../officeDocument/2006/relationships | (Part 1, §22.8.2.1). |

STANDARDSISO.COM : Click to view the full PDF of ISO/IEC 29500-4:2011

# 16. PresentationML Reference Material

## 16.1 Table of Contents

This subclause is informative.

|             |                                                                            |            |
|-------------|----------------------------------------------------------------------------|------------|
| <b>16.2</b> | <b>Presentation.....</b>                                                   | <b>230</b> |
| 16.2.1      | Presentation Properties.....                                               | 230        |
| 16.2.1.1    | htmlPubPr (HTML Publishing Properties) .....                               | 230        |
| 16.2.1.2    | webPr (Web Properties) .....                                               | 231        |
| 16.2.1.3    | Additional attributes for modifyVerifier element (Part 1, §19.2.1.19)..... | 233        |
| <b>16.3</b> | <b>Slides .....</b>                                                        | <b>239</b> |
| 16.3.1      | Embedded Objects.....                                                      | 239        |
| 16.3.1.1    | Additional attribute for control element (Part 1, §19.3.2.1) .....         | 239        |
| 16.3.1.2    | Additional attribute for oleObj element (Part 1, §19.3.2.4) .....          | 239        |
| <b>16.4</b> | <b>Simple Types .....</b>                                                  | <b>239</b> |
| 16.4.1      | ST_WebColorType (HTML Slide Navigation Control Colors).....                | 239        |
| 16.4.2      | ST_WebEncoding (Web Encoding) .....                                        | 240        |
| 16.4.3      | ST_WebScreenSize (HTML/Web Screen Size Target) .....                       | 240        |
| <b>16.5</b> | <b>Changed attributes .....</b>                                            | <b>241</b> |
| 16.5.1      | Changed attribute for bold element (Part 1, §19.2.1.1).....                | 241        |
| 16.5.2      | Changed attribute for boldItalic element (Part 1, §19.2.1.2) .....         | 241        |
| 16.5.3      | Changed attribute for font element (Part 1, §19.2.1.13) .....              | 241        |
| 16.5.4      | Changed attribute for handoutMasterId element (Part 1, §19.2.1.14).....    | 244        |
| 16.5.5      | Changed attribute for italic element (Part 1, §19.2.1.16) .....            | 244        |
| 16.5.6      | Changed attribute for notesMasterId element (Part 1, §19.2.1.20) .....     | 244        |
| 16.5.7      | Changed attribute for notesSz element (Part 1, §19.2.1.22).....            | 244        |
| 16.5.8      | Changed attribute for regular element (Part 1, §19.2.1.29) .....           | 245        |
| 16.5.9      | Changed attribute for sld element (Part 1, §19.2.1.31) .....               | 245        |
| 16.5.10     | Changed attribute for sldId element (Part 1, §19.2.1.33) .....             | 246        |
| 16.5.11     | Changed attribute for sldMasterId element (Part 1, §19.2.1.36) .....       | 246        |
| 16.5.12     | Changed attribute for SmartTags element (Part 1, §19.2.1.40).....          | 246        |
| 16.5.13     | Changed attribute for gridSpacing element (Part 1, §19.2.2.3) .....        | 246        |
| 16.5.14     | Changed attribute for origin element (Part 1, §19.2.2.9) .....             | 247        |
| 16.5.15     | Changed attribute for sld element (Part 1, §19.2.2.14) .....               | 247        |
| 16.5.16     | Changed attribute for bgRef element (Part 1, §19.3.1.3) .....              | 248        |
| 16.5.17     | Changed attribute for blipFill element (Part 1, §19.3.1.4) .....           | 248        |
| 16.5.18     | Changed attribute for clrMap element (Part 1, §19.3.1.6) .....             | 248        |
| 16.5.19     | Changed attribute for cNvPicPr element (Part 1, §19.3.1.11).....           | 250        |
| 16.5.20     | Changed attribute for cNvPr element (Part 1, §19.3.1.12) .....             | 250        |
| 16.5.21     | Changed attribute for cNvSpPr element (Part 1, §19.3.1.13) .....           | 252        |
| 16.5.22     | Changed attribute for contentPart element (Part 1, §19.3.1.14) .....       | 252        |

|         |                                                                      |     |
|---------|----------------------------------------------------------------------|-----|
| 16.5.23 | Changed attribute for custData element (Part 1, §19.3.1.17) .....    | 253 |
| 16.5.24 | Changed attribute for grpSpPr element (Part 1, §19.3.1.23) .....     | 253 |
| 16.5.25 | Changed attribute for sldLayoutId element (Part 1, §19.3.1.40) ..... | 253 |
| 16.5.26 | Changed attribute for spPr element (Part 1, §19.3.1.44) .....        | 253 |
| 16.5.27 | Changed attribute for tags element (Part 1, §19.3.1.47) .....        | 254 |
| 16.5.28 | Changed attribute for xfrm element (Part 1, §19.3.1.53) .....        | 254 |
| 16.5.29 | Changed attribute for control element (Part 1, §19.3.2.1) .....      | 255 |
| 16.5.30 | Changed attribute for oleObj element (Part 1, §19.3.2.4) .....       | 255 |
| 16.5.31 | Changed attribute for pos element (Part 1, §19.4.5) .....            | 255 |
| 16.5.32 | Changed attribute for snd element (Part 1, §19.5.68) .....           | 256 |
| 16.5.33 | Changed attribute for sndTgt element (Part 1, §19.5.70) .....        | 256 |

End of informative text.

## 16.2 Presentation

### 16.2.1 Presentation Properties

#### 16.2.1.1 htmlPubPr (HTML Publishing Properties)

This element specifies the publishing properties to be used when publishing this presentation document to the HTML file format. The target output profile is identified by the contents of the target attribute.

| Parent Elements                     |
|-------------------------------------|
| presentationPr (Part 1, §19.2.1.27) |

| Child Elements          | Subclause             |
|-------------------------|-----------------------|
| custShow (Custom Show)  | Part 1,<br>§19.2.1.5  |
| extLst (Extension List) | Part 1,<br>§19.2.1.12 |
| sldAll (All Slides)     | Part 1,<br>§19.2.1.32 |
| sldRg (Slide Range)     | Part 1,<br>§19.2.1.38 |

| Attributes                                              | Description                                                                                                  |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| id (Publish Path)                                       | Specifies the path that should be used when publishing.                                                      |
| Namespace:<br>.../officeDocument<br>/2006/relationships | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1). |



| Attributes                               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |        |                |                       |                |                       |                |                       |                |                       |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|----------------|-----------------------|----------------|-----------------------|----------------|-----------------------|----------------|-----------------------|
| showSpeakerNotes<br>(Show Speaker Notes) | Specifies whether to show speaker notes when publishing.<br><br>The possible values for this attribute are defined by the W3C XML Schema boolean datatype.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |        |                |                       |                |                       |                |                       |                |                       |
| target (Target Output Profile)           | <p>Specifies the version of HTML output targeted by the output of any web page produced by this document. This attribute shall only contain a string that represents an output profile defined by published standards and W3C recommendations. Product names shall not be used to define a profile.</p> <p>The following reserved values and their targets are listed below:</p> <table border="1"> <thead> <tr> <th>Value</th><th>Target</th></tr> </thead> <tbody> <tr> <td>W3C XHTML+CSS1</td><td>W3C XHTML 1.0 + CSS 1</td></tr> <tr> <td>W3C HTML4+CSS1</td><td>W3C HTML 4.01 + CSS 1</td></tr> <tr> <td>W3C XHTML+CSS2</td><td>W3C XHTML 1.0 + CSS 2</td></tr> <tr> <td>W3C HTML4+CSS2</td><td>W3C HTML 4.01 + CSS 2</td></tr> </tbody> </table> <p>[Example: For example, consider the following set of HTML publishing settings:</p> <pre>&lt;p:htmlPubPr ... target="W3C HTML4+CSS2"&gt; ... &lt;/p:htmlPubPr&gt;</pre> <p>The target attribute explicitly declares that any web page generated from this document should target the W3C HTML4+CSS2 profile. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> | Value | Target | W3C XHTML+CSS1 | W3C XHTML 1.0 + CSS 1 | W3C HTML4+CSS1 | W3C HTML 4.01 + CSS 1 | W3C XHTML+CSS2 | W3C XHTML 1.0 + CSS 2 | W3C HTML4+CSS2 | W3C HTML 4.01 + CSS 2 |
| Value                                    | Target                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |        |                |                       |                |                       |                |                       |                |                       |
| W3C XHTML+CSS1                           | W3C XHTML 1.0 + CSS 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |        |                |                       |                |                       |                |                       |                |                       |
| W3C HTML4+CSS1                           | W3C HTML 4.01 + CSS 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |        |                |                       |                |                       |                |                       |                |                       |
| W3C XHTML+CSS2                           | W3C XHTML 1.0 + CSS 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |        |                |                       |                |                       |                |                       |                |                       |
| W3C HTML4+CSS2                           | W3C HTML 4.01 + CSS 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |        |                |                       |                |                       |                |                       |                |                       |
| title (HTML Output Title)                | <p>Specifies a title for the HTML output file.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |        |                |                       |                |                       |                |                       |                |                       |

[Note: The W3C XML Schema definition of this element's content model ([CT\\_HtmlPublishProperties](#)) is located in §A.3. *end note*]

### 16.2.1.2 webPr (Web Properties)

This element specifies all general output properties that pertain to generating a web format version of the presentation document.

| Parent Elements                     |
|-------------------------------------|
| presentationPr (Part 1, §19.2.1.27) |

| Child Elements          | Subclause             |
|-------------------------|-----------------------|
| extLst (Extension List) | Part 1,<br>§19.2.1.12 |

| Attributes                                          | Description                                                                                                                                                                                              |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| allowPng (Allow PNG in HTML output)                 | Specifies whether to allow the output of PNG format pictures in the HTML document.<br><br>The possible values for this attribute are defined by the W3C XML Schema boolean datatype.                     |
| clr (Slide Navigation Colors for HTML output)       | Specifies the color constraints that are to be used when generating HTML output.<br><br>The possible values for this attribute are defined by the ST_WebColorType simple type (§16.4.1).                 |
| encoding (Encoding for HTML output)                 | Specifies the particular HTML character set encoding that should be used when generating output.<br><br>The possible values for this attribute are defined by the ST_WebEncoding simple type (§16.4.2).  |
| imgSz (Image size for HTML output)                  | Specifies the screen size for which the images in the HTML output should be optimized.<br><br>The possible values for this attribute are defined by the ST_WebScreenSize simple type (§16.4.3).          |
| organizeInFolders (Organize HTML output in folders) | Specifies whether the supporting output files should be automatically organized into a folder.<br><br>The possible values for this attribute are defined by the W3C XML Schema boolean datatype.         |
| relyOnVml (Rely on VML for HTML output)             | Specifies whether graphics should be output in VML within the HTML.<br><br>The possible values for this attribute are defined by the W3C XML Schema boolean datatype.                                    |
| resizeGraphics (Resize graphics in HTML output)     | Specifies whether to resize graphics to fit within the browser window when generating the HTML output.<br><br>The possible values for this attribute are defined by the W3C XML Schema boolean datatype. |
| showAnimation (Show animation in                    | Specifies whether to show presentation animation in the HTML output file.                                                                                                                                |

| Attributes                                               | Description                                                                                                                                                                              |
|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HTML output)                                             | The possible values for this attribute are defined by the W3C XML Schema boolean datatype.                                                                                               |
| useLongFileNames<br>(Use long file names in HTML output) | Specifies whether to allow the use of long file names when generating the HTML output.<br><br>The possible values for this attribute are defined by the W3C XML Schema boolean datatype. |

[Note: The W3C XML Schema definition of this element's content model (CT WebProperties) is located in §A.3. *end note*]

### 16.2.1.3 Additional attributes for modifyVerifier element (Part 1, §19.2.1.19)

The following additional attributes can be specified for a document of a transitional conformance class:

| Attributes                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| algIdExt<br>(Cryptographic Algorithm Extensibility) | <p>Specifies that a cryptographic algorithm which was not defined by ISO/IEC 29500 has been used to generate the hash value stored with this document.</p> <p>This value, when present, shall be interpreted based on the value of the algIdExtSource attribute in order to determine the algorithm used, which shall be application-defined.<br/>[Rationale: This extensibility affords the fact that with exponentially increasing computing power, documents created in the future might need to utilize as yet undefined hashing algorithms in order to remain secure. <i>end rationale</i>]</p> <p>If this value is present, the cryptAlgorithmClass, cryptAlgorithmType, and cryptAlgorithmSid attribute values shall be ignored in favor of the algorithm defined by this attribute.</p> <p>[Example: Consider a PresentationML document with the following information stored in its protection element:</p> <pre>&lt;... p:algIdExt="0000000A"       p:algIdExtSource="futureCryptography"       p:hashData="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre> <p>The algIdExt attribute value of 0000000A specifies that the algorithm with hex code A shall be used as defined by the futureCryptography application. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema unsignedInt datatype.</p> |
| algIdExtSource<br>(Algorithm Extensibility Source)  | <p>Specifies the application which defined the algorithm value specified by the algIdExt attribute.</p> <p>[Example: Consider a PresentationML document with the following information stored in</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

| Attributes                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|---|-----|---|-----|---|-----|---|-------|---|-----|---|--------|---|------------|---|-------------------------------|
|                                                     | <p>one its protection element:</p> <pre>&lt;... p:algIdExt="0000000A"       p:algIdExtSource="futureCryptography"       p:hashData="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre> <p>The algIdExtSource attribute value of futureCryptography specifies that the algorithm used here was published by the futureCryptography application. <i>end example</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                 |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |
| cryptAlgorithmClass (Cryptographic Algorithm Class) | <p>Specifies the class of cryptographic algorithm used by this protection. [<i>Note</i>: The initial version of ISO/IEC 29500 only supports a single version - hash - but future versions can expand this as necessary. <i>end note</i>]</p> <p>[<i>Example</i>: Consider a PresentationML document with the following information stored in its protection element:</p> <pre>&lt;... p:cryptAlgorithmClass="hash"       p:cryptAlgorithmType="typeAny"       p:cryptAlgorithmSid="1"       p:hashData="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre> <p>The cryptAlgorithmClass attribute value of hash specifies that the algorithm used for the password is a hashing algorithm. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_AlgClass simple type (§20.1.2.1).</p> |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |
| cryptAlgorithmSid (Cryptographic Hashing Algorithm) | <p>Specifies the specific cryptographic hashing algorithm which shall be used along with the saltData attribute and user-supplied password in order to compute a hash value for comparison.</p> <p>The possible values for this attribute shall be interpreted as follows:</p> <table border="1"> <thead> <tr> <th>Value</th><th>Algorithm</th></tr> </thead> <tbody> <tr> <td>1</td><td>MD2</td></tr> <tr> <td>2</td><td>MD4</td></tr> <tr> <td>3</td><td>MD5</td></tr> <tr> <td>4</td><td>SHA-1</td></tr> <tr> <td>5</td><td>MAC</td></tr> <tr> <td>6</td><td>RIPEMD</td></tr> <tr> <td>7</td><td>RIPEMD-160</td></tr> <tr> <td>8</td><td>Undefined. Shall not be used.</td></tr> </tbody> </table>                                                                                                         | Value | Algorithm | 1 | MD2 | 2 | MD4 | 3 | MD5 | 4 | SHA-1 | 5 | MAC | 6 | RIPEMD | 7 | RIPEMD-160 | 8 | Undefined. Shall not be used. |
| Value                                               | Algorithm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |
| 1                                                   | MD2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |
| 2                                                   | MD4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |
| 3                                                   | MD5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |
| 4                                                   | SHA-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |
| 5                                                   | MAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |
| 6                                                   | RIPEMD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |
| 7                                                   | RIPEMD-160                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |
| 8                                                   | Undefined. Shall not be used.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |           |   |     |   |     |   |     |   |       |   |     |   |        |   |            |   |                               |

| Attributes                                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |      |    |                               |    |                               |    |         |    |         |    |         |                 |                               |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|----|-------------------------------|----|-------------------------------|----|---------|----|---------|----|---------|-----------------|-------------------------------|
|                                                   | <table border="1" data-bbox="415 243 1349 621"> <tr><td>9</td><td>HMAC</td></tr> <tr><td>10</td><td>Undefined. Shall not be used.</td></tr> <tr><td>11</td><td>Undefined. Shall not be used.</td></tr> <tr><td>12</td><td>SHA-256</td></tr> <tr><td>13</td><td>SHA-384</td></tr> <tr><td>14</td><td>SHA-512</td></tr> <tr><td>Any other value</td><td>Undefined. Shall not be used.</td></tr> </table> <p data-bbox="415 657 1471 726">[Example: Consider a PresentationML document with the following information stored in its protection element:</p> <pre data-bbox="456 762 1192 898">&lt;... p:cryptAlgorithmClass="hash"       p:cryptAlgorithmType="typeAny"       p:cryptAlgorithmSid="1"       p:hashData="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre> <p data-bbox="415 934 1442 1003">The cryptAlgorithmSid attribute value of 1 specifies that the SHA-1 hashing algorithm shall be used to generate a hash from the user-defined password. <i>end example</i>]</p> <p data-bbox="415 1039 1451 1108">The possible values for this attribute are defined by the W3C XML Schema unsignedInt datatype.</p> | 9 | HMAC | 10 | Undefined. Shall not be used. | 11 | Undefined. Shall not be used. | 12 | SHA-256 | 13 | SHA-384 | 14 | SHA-512 | Any other value | Undefined. Shall not be used. |
| 9                                                 | HMAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |      |    |                               |    |                               |    |         |    |         |    |         |                 |                               |
| 10                                                | Undefined. Shall not be used.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |      |    |                               |    |                               |    |         |    |         |    |         |                 |                               |
| 11                                                | Undefined. Shall not be used.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |      |    |                               |    |                               |    |         |    |         |    |         |                 |                               |
| 12                                                | SHA-256                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |      |    |                               |    |                               |    |         |    |         |    |         |                 |                               |
| 13                                                | SHA-384                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |      |    |                               |    |                               |    |         |    |         |    |         |                 |                               |
| 14                                                | SHA-512                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |      |    |                               |    |                               |    |         |    |         |    |         |                 |                               |
| Any other value                                   | Undefined. Shall not be used.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |      |    |                               |    |                               |    |         |    |         |    |         |                 |                               |
| cryptAlgorithmType (Cryptographic Algorithm Type) | <p data-bbox="415 1125 1455 1230">Specifies the kind of cryptographic algorithm used by this protection. [Note: The initial version of ISO/IEC 29500 only supports a single type - typeAny - but future versions can expand this as necessary. <i>end note</i>]</p> <p data-bbox="415 1266 1471 1335">[Example: Consider a PresentationML document with the following information stored in its protection element:</p> <pre data-bbox="456 1371 1192 1507">&lt;... p:cryptAlgorithmClass="hash"       p:cryptAlgorithmType="typeAny"       p:cryptAlgorithmSid="1"       p:hashData="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre> <p data-bbox="415 1543 1438 1612">The cryptAlgorithmType attribute value of typeAny specifies that any algorithm type might have been used for the password. <i>end example</i>]</p> <p data-bbox="415 1648 1367 1717">The possible values for this attribute are defined by the ST_AlgorithmType simple type (§20.1.2.2).</p>                                                                                                                                                      |   |      |    |                               |    |                               |    |         |    |         |    |         |                 |                               |
| cryptProvider (Cryptographic Provider)            | <p data-bbox="415 1738 1474 1873">Specifies the cryptographic provider which was used to generate the hash value stored in this document. If the user provided a cryptographic provider which was not the system's built-in provider, then that provider shall be stored here so it can subsequently be used if available.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |      |    |                               |    |                               |    |         |    |         |    |         |                 |                               |

| Attributes                                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                            | <p>If this attribute is omitted, then the built-in cryptographic provider on the system shall be used.</p> <p>[<i>Example</i>: Consider a PresentationML document with the following information stored in its protection element:</p> <pre>&lt;... p:cryptProvider="Krista'sProvider"       p:hashData="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre> <p>The cryptProvider attribute value of Krista'sProvider specifies that the cryptographic provider with name "Krista's Provider" shall be used if available. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                       |
| cryptProviderType<br>(Cryptographic<br>Provider Type)                      | <p>Specifies the kind of cryptographic provider to be used.</p> <p>[<i>Example</i>: Consider a PresentationML document with the following information stored in its protection element:</p> <pre>&lt;... p:cryptProviderType="rsaAES"       p:hashData="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre> <p>The cryptProviderType attribute value of rsaAES specifies that the cryptographic provider type shall be an Advanced Encryption Standard provider. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_CryptProv simple type (§20.1.2.4).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| cryptProviderType<br>Ext (Cryptographic<br>Provider Type<br>Extensibility) | <p>Specifies that a cryptographic provider type which was not defined by ISO/IEC 29500 has been used to generate the hash value stored with this document.</p> <p>This value, when present, shall be interpreted based on the value of the cryptProviderTypeExtSource attribute in order to determine the provider type used, which shall be application-defined. [<i>Rationale</i>: This extensibility affords the fact that with exponentially increasing computing power, documents created in the future might need to utilize as yet undefined cryptographic provider types in order to remain secure. <i>end rationale</i>]</p> <p>If this value is present, the cryptProviderType attribute value shall be ignored in favor of the provider type defined by this attribute.</p> <p>[<i>Example</i>: Consider a PresentationML document with the following information stored in its protection element:</p> <pre>&lt;... p:cryptProviderTypeExt="00A5691D"       p:cryptProvideTypeExtSource="futureCryptography"</pre> |

| Attributes                                                             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                        | <p><code>p:hashData="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</code></p> <p>The <code>cryptProviderTypeExt</code> attribute value of <code>00A5691D</code> specifies that the provider type associated with hex code <code>A5691D</code> shall be used as defined by the <code>futureCryptography</code> application. <i>end example</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema <code>unsignedInt</code> datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>cryptProviderTypeExtSource (Provider Type Extensibility Source)</b> | <p>Specifies the application which defined the provider type value specified by the <code>cryptProviderTypeExt</code> attribute.</p> <p>[<i>Example</i>: Consider a PresentationML document with the following information stored in its protection element:</p> <pre>&lt;... p:cryptProviderTypeExt="00A5691D"       p:cryptProvideTypeExtSource="futureCryptography"       p:hashData="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre> <p>The <code>cryptProvideTypeExtSource</code> attribute value of <code>futureCryptography</code> specifies that the provider type used here was published by the <code>futureCryptography</code> application. <i>end example</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema <code>string</code> datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>hashData (Password Hash)</b>                                        | <p>Specifies the hash value for the password stored with this document. This value shall be compared with the resulting hash value after hashing the user-supplied password using the algorithm specified by the preceding attributes and parent XML element, and if the two values match, the protection shall no longer be enforced.</p> <p>If this value is omitted, then no password shall be associated with the protection, and it can be turned off without supplying any password.</p> <p>[<i>Example</i>: Consider a PresentationML document with the following information stored in its protection element:</p> <pre>&lt;... p:cryptAlgorithmClass="hash"       p:cryptAlgorithmType="typeAny"       p:cryptAlgorithmSid="1"       p:hashData="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre> <p>The <code>hashData</code> attribute value of <code>9oN7nWkCAyEZib1RomSJTjmPpCY=</code> specifies that the user-supplied password shall be hashed using the pre-processing defined by the parent element (if any) followed by the SHA-1 algorithm (specified via the <code>cryptAlgorithmSid</code> attribute value of 1) and that the resulting has value must be <code>9oN7nWkCAyEZib1RomSJTjmPpCY=</code> for the protection to be disabled. <i>end example</i></p> |

| Attributes                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                            | <p>The possible values for this attribute are defined by the W3C XML Schema base64Binary datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>saltData (Salt for Password Verifier)</p>               | <p>Specifies the salt which was prepended to the user-supplied password before it was hashed using the hashing algorithm defined by the preceding attribute values to generate the hashData attribute, and which shall also be prepended to the user-supplied password before attempting to generate a hash value for comparison. A <i>salt</i> is a random string which is added to a user-supplied password before it is hashed in order to prevent a malicious party from pre-calculating all possible password/hash combinations and simply using those precalculated values (often referred to as a "dictionary attack").</p> <p>If this attribute is omitted, then no salt shall be prepended to the user-supplied password before it is hashed for comparison with the stored hash value.</p> <p>[Example: Consider a PresentationML document with the following information stored in its protection element:</p> <pre>&lt;... p:saltData="ZUdHa+D8F/OAKP3I7ssUnQ=="       p:hashData="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre> <p>The saltData attribute value of ZUdHa+D8F/OAKP3I7ssUnQ== specifies that the user-supplied password shall have this value prepended before it is run through the specified hashing algorithm to generate a resulting hash value for comparison. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema base64Binary datatype.</p> |
| <p>spinCount<br/>(Iterations to Run Hashing Algorithm)</p> | <p>Specifies the number of times the hashing function shall be iteratively run (runs using each iteration's result plus a 4 byte value (0-based, little endian) containing the number of the iteration as the input for the next iteration) when attempting to compare a user-supplied password with the value stored in the hashData attribute. [Rationale: Running the algorithm many times increases the cost of exhaustive search attacks correspondingly. Storing this value allows for the number of iterations to be increased over time to accommodate faster hardware (and hence the ability to run more iterations in less time). <i>end rationale</i>]</p> <p>[Example: Consider a PresentationML document with the following information stored in its protection element:</p> <pre>&lt;... p:spinCount="100000"       p:hashData="9oN7nWkCAyEZib1RomSJTjmPpCY=" /&gt;</pre> <p>The spinCount attribute value of 100000 specifies that the hashing function shall be run one hundred thousand times to generate a hash value for comparison with the hash attribute. <i>end example</i>]</p>                                                                                                                                                                                                                                                                                                                  |



| Attributes | Description                                                                                    |
|------------|------------------------------------------------------------------------------------------------|
|            | The possible values for this attribute are defined by the W3C XML Schema unsignedInt datatype. |

## 16.3 Slides

### 16.3.1 Embedded Objects

#### 16.3.1.1 Additional attribute for control element (Part 1, §19.3.2.1)

The following additional attributes can be specified for a document of a transitional conformance class:

| Attributes                      | Description                                                                                                                                                                                                                                         |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| spid (Embedded object Shape ID) | Specifies the identifier of the shape associated with this Embedded object. The shape contains all coordinate anchoring information.<br><br>The possible values for this attribute are defined by the ST_ShapeID simple type (Part 1, §20.1.10.55). |

#### 16.3.1.2 Additional attribute for oleObj element (Part 1, §19.3.2.4)

The following additional attributes can be specified for a document of a transitional conformance class:

| Attributes                      | Description                                                                                                                                                                                                                                         |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| spid (Embedded object Shape ID) | Specifies the identifier of the shape associated with this Embedded object. The shape contains all coordinate anchoring information.<br><br>The possible values for this attribute are defined by the ST_ShapeID simple type (Part 1, §20.1.10.55). |

## 16.4 Simple Types

The following additional simple type information in the <http://schemas.openxmlformats.org/presentationml/2006/main> namespace is used for documents of a transitional conformance class.

### 16.4.1 ST\_WebColorType (HTML Slide Navigation Control Colors)

This simple type specifies the coloring that should be used when outputting to web formats.

This simple type's contents are a restriction of the W3C XML Schema token datatype.

| Enumeration Value                               | Description                                  |
|-------------------------------------------------|----------------------------------------------|
| blackTextOnWhite (Black Text on White Colors)   | Black Text on White coloring should be used. |
| browser (Browser Colors)                        | Browser coloring should be used.             |
| none (Non-specific Colors)                      | No specific coloring has been specified.     |
| presentationAccent (Presentation Accent Colors) | Presentation accent coloring should be used. |

| Enumeration Value                             | Description                                  |
|-----------------------------------------------|----------------------------------------------|
| presentationText (Presentation Text Colors)   | Presentation text coloring should be used.   |
| whiteTextOnBlack (White Text on Black Colors) | White text on black coloring should be used. |

| Referenced By         |
|-----------------------|
| webPr@clr (§16.2.1.2) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_WebColorType) is located in §A.3. *end note*]

### 16.4.2 ST\_WebEncoding (Web Encoding)

This simple type specifies a string representing the HTML character set used when outputting to web formats.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Referenced By              |
|----------------------------|
| webPr@encoding (§16.2.1.2) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_WebEncoding) is located in §A.3. *end note*]

### 16.4.3 ST\_WebScreenSize (HTML/Web Screen Size Target)

This simple type specifies the intended screen resolution for output to web formats.

This simple type's contents are a restriction of the W3C XML Schema token datatype.

| Enumeration Value                               | Description                     |
|-------------------------------------------------|---------------------------------|
| 1024x768 (HTML/Web Size Enumeration 1024x768)   | Screen size is 1024x768 pixels  |
| 1152x882 (HTML/Web Size Enumeration 1152x882)   | Screen size is 1152x882 pixels  |
| 1152x900 (HTML/Web Size Enumeration 1152x900)   | Screen size is 1152x900 pixels  |
| 1280x1024 (HTML/Web Size Enumeration 1280x1024) | Screen size is 1280x1024 pixels |
| 1600x1200 (HTML/Web Size Enumeration 1600x1200) | Screen size is 1600x1200 pixels |
| 1800x1400 (HTML/Web Size Enumeration 1800x1400) | Screen size is 1800x1400 pixels |
| 1920x1200 (HTML/Web Size Enumeration 1920x1200) | Screen size is 1920x1200 pixels |

| Enumeration Value                           | Description                   |
|---------------------------------------------|-------------------------------|
| 544x376 (HTML/Web Size Enumeration 544x376) | Screen size is 544x376 pixels |
| 640x480 (HTML/Web Size Enumeration 640x480) | Screen size is 640x480 pixels |
| 720x512 (HTML/Web Size Enumeration 720x512) | Screen size is 720x512 pixels |
| 800x600 (HTML/Web Size Enumeration 800x600) | Screen size is 800x600 pixels |

| Referenced By           |
|-------------------------|
| webPr@imgSz (§16.2.1.2) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_WebScreenSize) is located in §A.3. *end note*]

## 16.5 Changed attributes

The following attributes, which are defined in subclauses within Part 1, §19, "PresentationML", have different source relationships when used in documents of the Transitional conformance class:

### 16.5.1 Changed attribute for bold element (Part 1, §19.2.1.1)

| Attributes                                              | Description                                                                                                                                                                                  |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship Identifier)                            | Specifies the relationship identifier that is used in conjunction with a corresponding relationship file to resolve the location of this embedded font that is referenced in a presentation. |
| Namespace:<br>.../officeDocument<br>/2006/relationships | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).                                                                                 |

### 16.5.2 Changed attribute for boldItalic element (Part 1, §19.2.1.2)

| Attributes                                              | Description                                                                                                                                                                                  |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship Identifier)                            | Specifies the relationship identifier that is used in conjunction with a corresponding relationship file to resolve the location of this embedded font that is referenced in a presentation. |
| Namespace:<br>.../officeDocument<br>/2006/relationships | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).                                                                                 |

### 16.5.3 Changed attribute for font element (Part 1, §19.2.1.13)

| Attributes                      | Description                                                                                                                                                                          |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| charset (Similar Character Set) | Specifies the character set that is supported by the parent font. This information can be used in font substitution logic to locate an appropriate substitute font when this font is |

| Attributes                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |      |                                                          |      |                                      |      |                                                                                                                                                                                                                 |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |                 |                                      |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|------|----------------------------------------------------------|------|--------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------|------|--------------------------------------------------------|------|----------------------------------------------------------------|------|-------------------------------------------------------------|------|------------------------------------------------------|------|----------------------------------------------------------------|------|-----------------------------------------------------------|------|-----------------------------------------------------------|------|----------------------------------------------------------------|------|------------------------------------------------------------|------|-------------------------------------------------------------|------|------------------------------------------------------------|------|-------------------------------------------------------------|------|---------------------------------------------------------|------|-----------------------------------------------------------------------|------|--------------------------------------------------------------|-----------------|--------------------------------------|
| Namespace:<br>.../drawingml/2006/main | <p>not available. This information is determined by querying the font when present and shall not be modified when the font is not available.</p> <p>The value of this attribute shall be interpreted as follows:</p> <table data-bbox="415 422 1481 1650"> <tr> <th>Value</th><th>Description</th></tr> <tr> <td>0x00</td><td>Specifies the ANSI character set. (IANA name iso-8859-1)</td></tr> <tr> <td>0x01</td><td>Specifies the default character set.</td></tr> <tr> <td>0x02</td><td>Specifies the Symbol character set. This value specifies that the characters in the Unicode private use area (U+FF00 to U+FFFF) of the font should be used to display characters in the range U+0000 to U+00FF.</td></tr> <tr> <td>0x4D</td><td>Specifies a Macintosh (Standard Roman) character set. (IANA name macintosh)</td></tr> <tr> <td>0x80</td><td>Specifies the JIS character set. (IANA name shift_jis)</td></tr> <tr> <td>0x81</td><td>Specifies the Hangul character set. (IANA name ks_c_5601-1987)</td></tr> <tr> <td>0x82</td><td>Specifies a Johab character set. (IANA name KS C-5601-1992)</td></tr> <tr> <td>0x86</td><td>Specifies the GB-2312 character set. (IANA name GBK)</td></tr> <tr> <td>0x88</td><td>Specifies the Chinese Big Five character set. (IANA name Big5)</td></tr> <tr> <td>0xA1</td><td>Specifies a Greek character set. (IANA name windows-1253)</td></tr> <tr> <td>0xA2</td><td>Specifies a Turkish character set. (IANA name iso-8859-9)</td></tr> <tr> <td>0xA3</td><td>Specifies a Vietnamese character set. (IANA name windows-1258)</td></tr> <tr> <td>0xB1</td><td>Specifies a Hebrew character set. (IANA name windows-1255)</td></tr> <tr> <td>0xB2</td><td>Specifies an Arabic character set. (IANA name windows-1256)</td></tr> <tr> <td>0xBA</td><td>Specifies a Baltic character set. (IANA name windows-1257)</td></tr> <tr> <td>0xCC</td><td>Specifies a Russian character set. (IANA name windows-1251)</td></tr> <tr> <td>0xDE</td><td>Specifies a Thai character set. (IANA name windows-874)</td></tr> <tr> <td>0xEE</td><td>Specifies an Eastern European character set. (IANA name windows-1250)</td></tr> <tr> <td>0xFF</td><td>Specifies an OEM character set not defined by ISO/IEC 29500.</td></tr> <tr> <td>Any other value</td><td>Application-defined, can be ignored.</td></tr> </table> <p>The possible values for this attribute are defined by the W3C XML Schema byte datatype.</p> | Value | Description | 0x00 | Specifies the ANSI character set. (IANA name iso-8859-1) | 0x01 | Specifies the default character set. | 0x02 | Specifies the Symbol character set. This value specifies that the characters in the Unicode private use area (U+FF00 to U+FFFF) of the font should be used to display characters in the range U+0000 to U+00FF. | 0x4D | Specifies a Macintosh (Standard Roman) character set. (IANA name macintosh) | 0x80 | Specifies the JIS character set. (IANA name shift_jis) | 0x81 | Specifies the Hangul character set. (IANA name ks_c_5601-1987) | 0x82 | Specifies a Johab character set. (IANA name KS C-5601-1992) | 0x86 | Specifies the GB-2312 character set. (IANA name GBK) | 0x88 | Specifies the Chinese Big Five character set. (IANA name Big5) | 0xA1 | Specifies a Greek character set. (IANA name windows-1253) | 0xA2 | Specifies a Turkish character set. (IANA name iso-8859-9) | 0xA3 | Specifies a Vietnamese character set. (IANA name windows-1258) | 0xB1 | Specifies a Hebrew character set. (IANA name windows-1255) | 0xB2 | Specifies an Arabic character set. (IANA name windows-1256) | 0xBA | Specifies a Baltic character set. (IANA name windows-1257) | 0xCC | Specifies a Russian character set. (IANA name windows-1251) | 0xDE | Specifies a Thai character set. (IANA name windows-874) | 0xEE | Specifies an Eastern European character set. (IANA name windows-1250) | 0xFF | Specifies an OEM character set not defined by ISO/IEC 29500. | Any other value | Application-defined, can be ignored. |
| Value                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |      |                                                          |      |                                      |      |                                                                                                                                                                                                                 |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |                 |                                      |
| 0x00                                  | Specifies the ANSI character set. (IANA name iso-8859-1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |             |      |                                                          |      |                                      |      |                                                                                                                                                                                                                 |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |                 |                                      |
| 0x01                                  | Specifies the default character set.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |             |      |                                                          |      |                                      |      |                                                                                                                                                                                                                 |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |                 |                                      |
| 0x02                                  | Specifies the Symbol character set. This value specifies that the characters in the Unicode private use area (U+FF00 to U+FFFF) of the font should be used to display characters in the range U+0000 to U+00FF.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |             |      |                                                          |      |                                      |      |                                                                                                                                                                                                                 |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |                 |                                      |
| 0x4D                                  | Specifies a Macintosh (Standard Roman) character set. (IANA name macintosh)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |      |                                                          |      |                                      |      |                                                                                                                                                                                                                 |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |                 |                                      |
| 0x80                                  | Specifies the JIS character set. (IANA name shift_jis)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |      |                                                          |      |                                      |      |                                                                                                                                                                                                                 |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |                 |                                      |
| 0x81                                  | Specifies the Hangul character set. (IANA name ks_c_5601-1987)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |             |      |                                                          |      |                                      |      |                                                                                                                                                                                                                 |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |                 |                                      |
| 0x82                                  | Specifies a Johab character set. (IANA name KS C-5601-1992)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |      |                                                          |      |                                      |      |                                                                                                                                                                                                                 |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |                 |                                      |
| 0x86                                  | Specifies the GB-2312 character set. (IANA name GBK)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |             |      |                                                          |      |                                      |      |                                                                                                                                                                                                                 |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |                 |                                      |
| 0x88                                  | Specifies the Chinese Big Five character set. (IANA name Big5)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |             |      |                                                          |      |                                      |      |                                                                                                                                                                                                                 |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |                 |                                      |
| 0xA1                                  | Specifies a Greek character set. (IANA name windows-1253)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |             |      |                                                          |      |                                      |      |                                                                                                                                                                                                                 |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |                 |                                      |
| 0xA2                                  | Specifies a Turkish character set. (IANA name iso-8859-9)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |             |      |                                                          |      |                                      |      |                                                                                                                                                                                                                 |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |                 |                                      |
| 0xA3                                  | Specifies a Vietnamese character set. (IANA name windows-1258)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |             |      |                                                          |      |                                      |      |                                                                                                                                                                                                                 |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |                 |                                      |
| 0xB1                                  | Specifies a Hebrew character set. (IANA name windows-1255)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |             |      |                                                          |      |                                      |      |                                                                                                                                                                                                                 |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |                 |                                      |
| 0xB2                                  | Specifies an Arabic character set. (IANA name windows-1256)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |      |                                                          |      |                                      |      |                                                                                                                                                                                                                 |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |                 |                                      |
| 0xBA                                  | Specifies a Baltic character set. (IANA name windows-1257)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |             |      |                                                          |      |                                      |      |                                                                                                                                                                                                                 |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |                 |                                      |
| 0xCC                                  | Specifies a Russian character set. (IANA name windows-1251)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |      |                                                          |      |                                      |      |                                                                                                                                                                                                                 |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |                 |                                      |
| 0xDE                                  | Specifies a Thai character set. (IANA name windows-874)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |             |      |                                                          |      |                                      |      |                                                                                                                                                                                                                 |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |                 |                                      |
| 0xEE                                  | Specifies an Eastern European character set. (IANA name windows-1250)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |             |      |                                                          |      |                                      |      |                                                                                                                                                                                                                 |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |                 |                                      |
| 0xFF                                  | Specifies an OEM character set not defined by ISO/IEC 29500.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |             |      |                                                          |      |                                      |      |                                                                                                                                                                                                                 |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |                 |                                      |
| Any other value                       | Application-defined, can be ignored.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |             |      |                                                          |      |                                      |      |                                                                                                                                                                                                                 |      |                                                                             |      |                                                        |      |                                                                |      |                                                             |      |                                                      |      |                                                                |      |                                                           |      |                                                           |      |                                                                |      |                                                            |      |                                                             |      |                                                            |      |                                                             |      |                                                         |      |                                                                       |      |                                                              |                 |                                      |

| Attributes                                                                             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |             |      |                                     |      |                                   |      |                                      |      |                                   |      |                                 |      |                                    |      |                                   |      |                                 |      |                                    |      |                                    |      |                                  |      |                                     |      |                                    |      |                                  |      |                                     |      |                                        |      |                                      |      |                                         |
|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|------|-------------------------------------|------|-----------------------------------|------|--------------------------------------|------|-----------------------------------|------|---------------------------------|------|------------------------------------|------|-----------------------------------|------|---------------------------------|------|------------------------------------|------|------------------------------------|------|----------------------------------|------|-------------------------------------|------|------------------------------------|------|----------------------------------|------|-------------------------------------|------|----------------------------------------|------|--------------------------------------|------|-----------------------------------------|
| <p>panose (Panose Setting)</p> <p>Namespace:<br/>.../drawingml/2006/main</p>           | <p>Specifies the Panose-1 classification number for the current font using the mechanism defined in §5.2.7.17 of ISO/IEC 14496-22.</p> <p>The possible values for this attribute are defined by the ST_Panose simple type (Part 1, §22.9.2.8).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |             |      |                                     |      |                                   |      |                                      |      |                                   |      |                                 |      |                                    |      |                                   |      |                                 |      |                                    |      |                                    |      |                                  |      |                                     |      |                                    |      |                                  |      |                                     |      |                                        |      |                                      |      |                                         |
| <p>pitchFamily (Similar Font Family)</p> <p>Namespace:<br/>.../drawingml/2006/main</p> | <p>Specifies the font pitch as well as the font family for the corresponding font. Because the value of this attribute is determined by a byte variable this value shall be interpreted as follows:</p> <table border="1" data-bbox="415 611 1469 1528"> <thead> <tr> <th>Value</th><th>Description</th></tr> </thead> <tbody> <tr><td>0x00</td><td>DEFAULT PITCH + UNKNOWN FONT FAMILY</td></tr> <tr><td>0x01</td><td>FIXED PITCH + UNKNOWN FONT FAMILY</td></tr> <tr><td>0x02</td><td>VARIABLE PITCH + UNKNOWN FONT FAMILY</td></tr> <tr><td>0x10</td><td>DEFAULT PITCH + ROMAN FONT FAMILY</td></tr> <tr><td>0x11</td><td>FIXED PITCH + ROMAN FONT FAMILY</td></tr> <tr><td>0x12</td><td>VARIABLE PITCH + ROMAN FONT FAMILY</td></tr> <tr><td>0x20</td><td>DEFAULT PITCH + SWISS FONT FAMILY</td></tr> <tr><td>0x21</td><td>FIXED PITCH + SWISS FONT FAMILY</td></tr> <tr><td>0x22</td><td>VARIABLE PITCH + SWISS FONT FAMILY</td></tr> <tr><td>0x30</td><td>DEFAULT PITCH + MODERN FONT FAMILY</td></tr> <tr><td>0x31</td><td>FIXED PITCH + MODERN FONT FAMILY</td></tr> <tr><td>0x32</td><td>VARIABLE PITCH + MODERN FONT FAMILY</td></tr> <tr><td>0x40</td><td>DEFAULT PITCH + SCRIPT FONT FAMILY</td></tr> <tr><td>0x41</td><td>FIXED PITCH + SCRIPT FONT FAMILY</td></tr> <tr><td>0x42</td><td>VARIABLE PITCH + SCRIPT FONT FAMILY</td></tr> <tr><td>0x50</td><td>DEFAULT PITCH + DECORATIVE FONT FAMILY</td></tr> <tr><td>0x51</td><td>FIXED PITCH + DECORATIVE FONT FAMILY</td></tr> <tr><td>0x52</td><td>VARIABLE PITCH + DECORATIVE FONT FAMILY</td></tr> </tbody> </table> <p>This information is determined by querying the font when present and shall not be modified when the font is not available. This information can be used in font substitution logic to locate an appropriate substitute font when this font is not available.</p> <p>The possible values for this attribute are defined by the W3C XML Schema byte datatype.</p> | Value | Description | 0x00 | DEFAULT PITCH + UNKNOWN FONT FAMILY | 0x01 | FIXED PITCH + UNKNOWN FONT FAMILY | 0x02 | VARIABLE PITCH + UNKNOWN FONT FAMILY | 0x10 | DEFAULT PITCH + ROMAN FONT FAMILY | 0x11 | FIXED PITCH + ROMAN FONT FAMILY | 0x12 | VARIABLE PITCH + ROMAN FONT FAMILY | 0x20 | DEFAULT PITCH + SWISS FONT FAMILY | 0x21 | FIXED PITCH + SWISS FONT FAMILY | 0x22 | VARIABLE PITCH + SWISS FONT FAMILY | 0x30 | DEFAULT PITCH + MODERN FONT FAMILY | 0x31 | FIXED PITCH + MODERN FONT FAMILY | 0x32 | VARIABLE PITCH + MODERN FONT FAMILY | 0x40 | DEFAULT PITCH + SCRIPT FONT FAMILY | 0x41 | FIXED PITCH + SCRIPT FONT FAMILY | 0x42 | VARIABLE PITCH + SCRIPT FONT FAMILY | 0x50 | DEFAULT PITCH + DECORATIVE FONT FAMILY | 0x51 | FIXED PITCH + DECORATIVE FONT FAMILY | 0x52 | VARIABLE PITCH + DECORATIVE FONT FAMILY |
| Value                                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |             |      |                                     |      |                                   |      |                                      |      |                                   |      |                                 |      |                                    |      |                                   |      |                                 |      |                                    |      |                                    |      |                                  |      |                                     |      |                                    |      |                                  |      |                                     |      |                                        |      |                                      |      |                                         |
| 0x00                                                                                   | DEFAULT PITCH + UNKNOWN FONT FAMILY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |             |      |                                     |      |                                   |      |                                      |      |                                   |      |                                 |      |                                    |      |                                   |      |                                 |      |                                    |      |                                    |      |                                  |      |                                     |      |                                    |      |                                  |      |                                     |      |                                        |      |                                      |      |                                         |
| 0x01                                                                                   | FIXED PITCH + UNKNOWN FONT FAMILY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |      |                                     |      |                                   |      |                                      |      |                                   |      |                                 |      |                                    |      |                                   |      |                                 |      |                                    |      |                                    |      |                                  |      |                                     |      |                                    |      |                                  |      |                                     |      |                                        |      |                                      |      |                                         |
| 0x02                                                                                   | VARIABLE PITCH + UNKNOWN FONT FAMILY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |             |      |                                     |      |                                   |      |                                      |      |                                   |      |                                 |      |                                    |      |                                   |      |                                 |      |                                    |      |                                    |      |                                  |      |                                     |      |                                    |      |                                  |      |                                     |      |                                        |      |                                      |      |                                         |
| 0x10                                                                                   | DEFAULT PITCH + ROMAN FONT FAMILY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |      |                                     |      |                                   |      |                                      |      |                                   |      |                                 |      |                                    |      |                                   |      |                                 |      |                                    |      |                                    |      |                                  |      |                                     |      |                                    |      |                                  |      |                                     |      |                                        |      |                                      |      |                                         |
| 0x11                                                                                   | FIXED PITCH + ROMAN FONT FAMILY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |             |      |                                     |      |                                   |      |                                      |      |                                   |      |                                 |      |                                    |      |                                   |      |                                 |      |                                    |      |                                    |      |                                  |      |                                     |      |                                    |      |                                  |      |                                     |      |                                        |      |                                      |      |                                         |
| 0x12                                                                                   | VARIABLE PITCH + ROMAN FONT FAMILY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |             |      |                                     |      |                                   |      |                                      |      |                                   |      |                                 |      |                                    |      |                                   |      |                                 |      |                                    |      |                                    |      |                                  |      |                                     |      |                                    |      |                                  |      |                                     |      |                                        |      |                                      |      |                                         |
| 0x20                                                                                   | DEFAULT PITCH + SWISS FONT FAMILY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |      |                                     |      |                                   |      |                                      |      |                                   |      |                                 |      |                                    |      |                                   |      |                                 |      |                                    |      |                                    |      |                                  |      |                                     |      |                                    |      |                                  |      |                                     |      |                                        |      |                                      |      |                                         |
| 0x21                                                                                   | FIXED PITCH + SWISS FONT FAMILY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |             |      |                                     |      |                                   |      |                                      |      |                                   |      |                                 |      |                                    |      |                                   |      |                                 |      |                                    |      |                                    |      |                                  |      |                                     |      |                                    |      |                                  |      |                                     |      |                                        |      |                                      |      |                                         |
| 0x22                                                                                   | VARIABLE PITCH + SWISS FONT FAMILY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |             |      |                                     |      |                                   |      |                                      |      |                                   |      |                                 |      |                                    |      |                                   |      |                                 |      |                                    |      |                                    |      |                                  |      |                                     |      |                                    |      |                                  |      |                                     |      |                                        |      |                                      |      |                                         |
| 0x30                                                                                   | DEFAULT PITCH + MODERN FONT FAMILY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |             |      |                                     |      |                                   |      |                                      |      |                                   |      |                                 |      |                                    |      |                                   |      |                                 |      |                                    |      |                                    |      |                                  |      |                                     |      |                                    |      |                                  |      |                                     |      |                                        |      |                                      |      |                                         |
| 0x31                                                                                   | FIXED PITCH + MODERN FONT FAMILY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |             |      |                                     |      |                                   |      |                                      |      |                                   |      |                                 |      |                                    |      |                                   |      |                                 |      |                                    |      |                                    |      |                                  |      |                                     |      |                                    |      |                                  |      |                                     |      |                                        |      |                                      |      |                                         |
| 0x32                                                                                   | VARIABLE PITCH + MODERN FONT FAMILY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |             |      |                                     |      |                                   |      |                                      |      |                                   |      |                                 |      |                                    |      |                                   |      |                                 |      |                                    |      |                                    |      |                                  |      |                                     |      |                                    |      |                                  |      |                                     |      |                                        |      |                                      |      |                                         |
| 0x40                                                                                   | DEFAULT PITCH + SCRIPT FONT FAMILY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |             |      |                                     |      |                                   |      |                                      |      |                                   |      |                                 |      |                                    |      |                                   |      |                                 |      |                                    |      |                                    |      |                                  |      |                                     |      |                                    |      |                                  |      |                                     |      |                                        |      |                                      |      |                                         |
| 0x41                                                                                   | FIXED PITCH + SCRIPT FONT FAMILY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |             |      |                                     |      |                                   |      |                                      |      |                                   |      |                                 |      |                                    |      |                                   |      |                                 |      |                                    |      |                                    |      |                                  |      |                                     |      |                                    |      |                                  |      |                                     |      |                                        |      |                                      |      |                                         |
| 0x42                                                                                   | VARIABLE PITCH + SCRIPT FONT FAMILY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |             |      |                                     |      |                                   |      |                                      |      |                                   |      |                                 |      |                                    |      |                                   |      |                                 |      |                                    |      |                                    |      |                                  |      |                                     |      |                                    |      |                                  |      |                                     |      |                                        |      |                                      |      |                                         |
| 0x50                                                                                   | DEFAULT PITCH + DECORATIVE FONT FAMILY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |             |      |                                     |      |                                   |      |                                      |      |                                   |      |                                 |      |                                    |      |                                   |      |                                 |      |                                    |      |                                    |      |                                  |      |                                     |      |                                    |      |                                  |      |                                     |      |                                        |      |                                      |      |                                         |
| 0x51                                                                                   | FIXED PITCH + DECORATIVE FONT FAMILY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |             |      |                                     |      |                                   |      |                                      |      |                                   |      |                                 |      |                                    |      |                                   |      |                                 |      |                                    |      |                                    |      |                                  |      |                                     |      |                                    |      |                                  |      |                                     |      |                                        |      |                                      |      |                                         |
| 0x52                                                                                   | VARIABLE PITCH + DECORATIVE FONT FAMILY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |             |      |                                     |      |                                   |      |                                      |      |                                   |      |                                 |      |                                    |      |                                   |      |                                 |      |                                    |      |                                    |      |                                  |      |                                     |      |                                    |      |                                  |      |                                     |      |                                        |      |                                      |      |                                         |

| Attributes                                                                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>typeface</b> (Text Typeface)<br><br>Namespace:<br>.../drawingml/2006/main | Specifies the typeface, or name of the font that is to be used. The typeface is a string name of the specific font that should be used in rendering the presentation. If this font is not available within the font list of the generating application than font substitution logic should be utilized in order to select an alternate font.<br><br>The possible values for this attribute are defined by the ST_TextTypeface simple type (Part 1, §20.1.10.81). |

#### 16.5.4 Changed attribute for handoutMasterId element (Part 1, §19.2.1.14)

| Attributes                                                                                     | Description                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>id</b> (Relationship Identifier)<br><br>Namespace:<br>.../officeDocument/2006/relationships | Specifies the relationship identifier that is used in conjunction with a corresponding relationship file to resolve the location within a presentation of the handoutMaster element defining this handout master.<br><br>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1). |

#### 16.5.5 Changed attribute for italic element (Part 1, §19.2.1.16)

| Attributes                                                                                     | Description                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>id</b> (Relationship Identifier)<br><br>Namespace:<br>.../officeDocument/2006/relationships | Specifies the relationship identifier that is used in conjunction with a corresponding relationship file to resolve the location of this embedded font that is referenced in a presentation.<br><br>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1). |

#### 16.5.6 Changed attribute for notesMasterId element (Part 1, §19.2.1.20)

| Attributes                                                                                     | Description                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>id</b> (Relationship Identifier)<br><br>Namespace:<br>.../officeDocument/2006/relationships | Specifies the relationship identifier that is used in conjunction with a corresponding relationship file to resolve the location within a presentation of the notesMaster element defining this notes master.<br><br>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1). |

#### 16.5.7 Changed attribute for notesSz element (Part 1, §19.2.1.22)

| Attributes                                  | Description                                                                                                                                                                 |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>cx</b> (Extent Length)<br><br>Namespace: | Specifies the length of the extents rectangle in EMUs. This rectangle shall dictate the size of the object as displayed (the result of any scaling to the original object). |

| Attributes                                                                                                                                                                                                                                                                                                                                                                                                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| .../drawingml/2006/main<br><br>[Example: Consider a DrawingML object specified as follows:<br><br><code>&lt;... cx="1828800" cy="200000"/&gt;</code><br><br>The cx attributes specifies that this object has a height of 1828800 EMUs (English Metric Units). <i>end example</i> ]<br><br>The possible values for this attribute are defined by the ST_PositiveCoordinate simple type (Part 1, §20.1.10.42). |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| cy (Extent Width)<br><br>Namespace:<br>.../drawingml/2006/main                                                                                                                                                                                                                                                                                                                                               | Specifies the width of the extents rectangle in EMUs. This rectangle shall dictate the size of the object as displayed (the result of any scaling to the original object).<br><br>[Example: Consider a DrawingML object specified as follows:<br><br><code>&lt; ... cx="1828800" cy="200000"/&gt;</code><br><br>The cy attribute specifies that this object has a width of 200000 EMUs (English Metric Units). <i>end example</i> ]<br><br>The possible values for this attribute are defined by the ST_PositiveCoordinate simple type (Part 1, §20.1.10.42). |

### 16.5.8 Changed attribute for regular element (Part 1, §19.2.1.29)

| Attributes                                                                              | Description                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship Identifier)<br><br>Namespace:<br>.../officeDocument/2006/relationships | Specifies the relationship identifier that is used in conjunction with a corresponding relationship file to resolve the location of this embedded font that is referenced in a presentation.<br><br>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1). |

### 16.5.9 Changed attribute for sld element (Part 1, §19.2.1.31)

| Attributes                                                                      | Description                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship ID)<br><br>Namespace:<br>.../officeDocument/2006/relationships | This attribute specifies the relationship id that is used to reference to the actual slide XML file that contains all the information to the slide listed within the slide list.<br><br>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1). |

### 16.5.10 Changed attribute for sldId element (Part 1, §19.2.1.33)

| Attributes                                              | Description                                                                                                                                                                                    |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship Identifier)                            | Specifies the relationship identifier that is used in conjunction with a corresponding relationship file to resolve the location within a presentation of the sld element defining this slide. |
| Namespace:<br>.../officeDocument<br>/2006/relationships | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).                                                                                   |

### 16.5.11 Changed attribute for sldMasterId element (Part 1, §19.2.1.36)

| Attributes                                              | Description                                                                                                                                                                                                 |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship Identifier)                            | Specifies the relationship identifier that is used in conjunction with a corresponding relationship file to resolve the location within a presentation of the sldMaster element defining this slide master. |
| Namespace:<br>.../officeDocument<br>/2006/relationships | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).                                                                                                |

### 16.5.12 Changed attribute for SmartTags element (Part 1, §19.2.1.40)

| Attributes                                              | Description                                                                                                                                         |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship Identifier)                            | Specifies the relationship identifier that is used in conjunction with a corresponding relationship file to resolve the location of this smart tag. |
| Namespace:<br>.../officeDocument<br>/2006/relationships | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).                                        |

### 16.5.13 Changed attribute for gridSpacing element (Part 1, §19.2.2.3)

| Attributes                            | Description                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| cx (Extent Length)                    | Specifies the length of the extents rectangle in EMUs. This rectangle shall dictate the size of the object as displayed (the result of any scaling to the original object).                                                                                                                                                                                                |
| Namespace:<br>.../drawingml/2006/main | <p>[Example: Consider a DrawingML object specified as follows:</p> <pre>&lt;... cx="1828800" cy="200000"/&gt;</pre> <p>The cx attributes specifies that this object has a height of 1828800 EMUs (English Metric Units). <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_PositiveCoordinate simple type (Part 1, §20.1.10.42).</p> |



| Attributes                                                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| cy (Extent Width)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies the width of the extents rectangle in EMUs. This rectangle shall dictate the size of the object as displayed (the result of any scaling to the original object).</p> <p>[<i>Example:</i> Consider a DrawingML object specified as follows:</p> <pre>&lt; ... cx="1828800" cy="200000" /&gt;</pre> <p>The cy attribute specifies that this object has a width of 200000 EMUs (English Metric Units). <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_PositiveCoordinate simple type (Part 1, §20.1.10.42).</p> |

#### 16.5.14 Changed attribute for origin element (Part 1, §19.2.2.9)

| Attributes                                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| x (X-Axis Coordinate)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies a coordinate on the x-axis. The origin point for this coordinate shall be specified by the parent XML element.</p> <p>[<i>Example:</i> Consider the following point on a basic wrapping polygon for a DrawingML object:</p> <pre>&lt;... x="0" y="100" /&gt;</pre> <p>The x attribute defines an x-coordinate of 0. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_Coordinate simple type (Part 1, §20.1.10.16).</p>  |
| y (Y-Axis Coordinate)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies a coordinate on the y-axis. The origin point for this coordinate shall be specified by the parent XML element.</p> <p>[<i>Example:</i> Consider the following point on a basic wrapping polygon for a DrawingML object:</p> <pre>&lt;... x="0" y="100" /&gt;</pre> <p>The y attribute defines a y-coordinate of 100. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_Coordinate simple type (Part 1, §20.1.10.16).</p> |

#### 16.5.15 Changed attribute for sld element (Part 1, §19.2.2.14)

| Attributes                   | Description                                                                                                                                                                        |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship Identifier) | Specifies the relationship identifier that is used in conjunction with a corresponding relationship file to resolve the location of this presentation slide within a presentation. |

| Attributes                                              | Description                                                                                                  |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Namespace:<br>.../officeDocument<br>/2006/relationships | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1). |

#### 16.5.16 Changed attribute for bgRef element (Part 1, §19.3.1.3)

| Attributes                                                            | Description                                                                                                                                                                              |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| idx (Style Matrix Index)<br><br>Namespace:<br>.../drawingml/2006/main | Specifies the style matrix index of the style referred to.<br><br>The possible values for this attribute are defined by the ST_StyleMatrixColumnIndex simple type (Part 1, §20.1.10.57). |

#### 16.5.17 Changed attribute for blipFill element (Part 1, §19.3.1.4)

| Attributes                                                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| dpi (DPI Setting)<br><br>Namespace:<br>.../drawingml/2006/main                | Specifies the DPI (dots per inch) used to calculate the size of the blip. If not present or zero, the DPI in the blip is used.<br><br>[Note: This attribute is primarily used to keep track of the picture quality within a document. There are different levels of quality needed for print than on-screen viewing and thus a need to track this information. end note]<br><br>The possible values for this attribute are defined by the W3C XML Schema unsignedInt datatype. |
| rotWithShape (Rotate With Shape)<br><br>Namespace:<br>.../drawingml/2006/main | Specifies that the fill should rotate with the shape. That is, when the shape that has been filled with a picture and the containing shape (say a rectangle) is transformed with a rotation then the fill is transformed with the same rotation.<br><br>The possible values for this attribute are defined by the W3C XML Schema boolean datatype.                                                                                                                             |

#### 16.5.18 Changed attribute for clrMap element (Part 1, §19.3.1.6)

| Attributes                                                      | Description                                                                                                                                                                                  |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| accent1 (Accent 1)<br><br>Namespace:<br>.../drawingml/2006/main | Specifies a color defined which is associated as the accent 1 color.<br><br>The possible values for this attribute are defined by the ST_ColorSchemeIndex simple type (Part 1, §20.1.10.14). |

| Attributes                                                                 | Description                                                                                                                                                                                                  |
|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| accent2 (Accent 2)<br><br>Namespace:<br>.../drawingml/2006/main            | Specifies a color defined which is associated as the accent 2 color.<br><br>The possible values for this attribute are defined by the ST_ColorSchemeIndex simple type (Part 1, §20.1.10.14).                 |
| accent3 (Accent 3)<br><br>Namespace:<br>.../drawingml/2006/main            | Specifies a color defined which is associated as the accent 3 color.<br><br>The possible values for this attribute are defined by the ST_ColorSchemeIndex simple type (Part 1, §20.1.10.14).                 |
| accent4 (Accent 4)<br><br>Namespace:<br>.../drawingml/2006/main            | Specifies a color defined which is associated as the accent 4 color.<br><br>The possible values for this attribute are defined by the ST_ColorSchemeIndex simple type (Part 1, §20.1.10.14).                 |
| accent5 (Accent 5)<br><br>Namespace:<br>.../drawingml/2006/main            | Specifies a color defined which is associated as the accent 5 color.<br><br>The possible values for this attribute are defined by the ST_ColorSchemeIndex simple type (Part 1, §20.1.10.14).                 |
| accent6 (Accent 6)<br><br>Namespace:<br>.../drawingml/2006/main            | Specifies a color defined which is associated as the accent 6 color.<br><br>The possible values for this attribute are defined by the ST_ColorSchemeIndex simple type (Part 1, §20.1.10.14).                 |
| bg1 (Background 1)<br><br>Namespace:<br>.../drawingml/2006/main            | A color defined which is associated as the first background color.<br><br>The possible values for this attribute are defined by the ST_ColorSchemeIndex simple type (Part 1, §20.1.10.14).                   |
| bg2 (Background 2)<br><br>Namespace:<br>.../drawingml/2006/main            | Specifies a color defined which is associated as the second background color.<br><br>The possible values for this attribute are defined by the ST_ColorSchemeIndex simple type (Part 1, §20.1.10.14).        |
| folHlink (Followed Hyperlink)<br><br>Namespace:<br>.../drawingml/2006/main | Specifies a color defined which is associated as the color for a followed hyperlink.<br><br>The possible values for this attribute are defined by the ST_ColorSchemeIndex simple type (Part 1, §20.1.10.14). |

| Attributes                                                     | Description                                                                                                                                                                                         |
|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| hlink (Hyperlink)<br><br>Namespace:<br>.../drawingml/2006/main | Specifies a color defined which is associated as the color for a hyperlink.<br><br>The possible values for this attribute are defined by the ST_ColorSchemeIndex simple type (Part 1, §20.1.10.14). |
| tx1 (Text 1)<br><br>Namespace:<br>.../drawingml/2006/main      | Specifies a color defined which is associated as the first text color.<br><br>The possible values for this attribute are defined by the ST_ColorSchemeIndex simple type (Part 1, §20.1.10.14).      |
| tx2 (Text 2)<br><br>Namespace:<br>.../drawingml/2006/main      | Specifies a color defined which is associated as the second text color.<br><br>The possible values for this attribute are defined by the ST_ColorSchemeIndex simple type (Part 1, §20.1.10.14).     |

#### 16.5.19 Changed attribute for cNvPicPr element (Part 1, §19.3.1.11)

| Attributes                                                                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| preferRelativeResize (Relative Resize Preferred)<br><br>Namespace:<br>.../drawingml/2006/main | Specifies if the user interface should show the resizing of the picture based on the picture's current size or its original size. If this attribute is set to true, then scaling is relative to the original picture size as opposed to the current picture size.<br><br>[Example: Consider the case where a picture has been resized within a document and is now 50% of the originally inserted picture size. Now if the user chooses to make a later adjustment to the size of this picture within the generating application, then the value of this attribute should be checked.<br><br>If this attribute is set to true then a value of 50% is shown. Similarly, if this attribute is set to false, then a value of 100% should be shown because the picture has not yet been resized from its current (smaller) size. <i>end example</i> ]<br><br>The possible values for this attribute are defined by the W3C XML Schema boolean datatype. |

#### 16.5.20 Changed attribute for cNvPr element (Part 1, §19.3.1.12)

| Attributes                                                                       | Description                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| descr (Alternative Text for Object)<br><br>Namespace:<br>.../drawingml/2006/main | Specifies alternative text for the current DrawingML object, for use by assistive technologies or applications that do not display the current object.<br><br>If this element is omitted, then no alternative text is present for the parent object.<br><br>[Example: Consider a DrawingML object defined as follows:<br><br><... descr="A picture of a bowl of fruit"> |

| Attributes                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                             | <p>The descr attribute contains alternative text that can be used in place of the actual DrawingML object. <i>end example</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p>hidden (Hidden)</p> <p>Namespace:<br/>.../drawingml/2006/main</p>        | <p>Specifies whether this DrawingML object is displayed. When a DrawingML object is displayed within a document, that object can be hidden (i.e., present, but not visible). This attribute determines whether the object is rendered or made hidden. [Note: An application can have settings which allow this object to be viewed. <i>end note</i>]</p> <p>If this attribute is omitted, then the parent DrawingML object shall be displayed (i.e., not hidden).</p> <p>[Example: Consider an inline DrawingML object that must be hidden within the document's content. This setting would be specified as follows:</p> <pre>&lt;... hidden="true" /&gt;</pre> <p>The hidden attribute has a value of true, which specifies that the DrawingML object is hidden and not displayed when the document is displayed. <i>end example</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema boolean datatype.</p> |
| <p>id (Unique Identifier)</p> <p>Namespace:<br/>.../drawingml/2006/main</p> | <p>Specifies a unique identifier for the current DrawingML object within the current document. This ID can be used to assist in uniquely identifying this object so that it can be referred to by other parts of the document.</p> <p>If multiple objects within the same document share the same id attribute value, then the document shall be considered non-conformant.</p> <p>[Example: Consider a DrawingML object defined as follows:</p> <pre>&lt;... id="10" ... &gt;</pre> <p>The id attribute has a value of 10, which is the unique identifier for this DrawingML object. <i>end example</i></p> <p>The possible values for this attribute are defined by the ST_DrawingElementId simple type (Part 1, §20.1.10.21).</p>                                                                                                                                                                                                         |
| <p>name (Name)</p> <p>Namespace:<br/>.../drawingml/2006/main</p>            | <p>Specifies the name of the object. [Note: Typically, this is used to store the original file name of a picture object. <i>end note</i>]</p> <p>[Example: Consider a DrawingML object defined as follows:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

| Attributes                                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                    | <p>&lt; ... name="foo.jpg" &gt;</p> <p>The name attribute has a value of foo.jpg, which is the name of this DrawingML object. <i>end example</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                       |
| <p>title (Title)</p> <p>Namespace:<br/>.../drawingml/2006/main</p> | <p>Specifies the title (caption) of the current DrawingML object.</p> <p>If this attribute is omitted, then no title text is present for the parent object.</p> <p>[Example: Consider a DrawingML object defined as follows:</p> <p>&lt;... title="Process Flow Diagram"&gt;</p> <p><i>end example</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |

#### 16.5.21 Changed attribute for cNvSpPr element (Part 1, §19.3.1.13)

| Attributes                                                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>txBox (Text Box)</p> <p>Namespace:<br/>.../drawingml/2006/main</p> | <p>Specifies that the corresponding shape is a text box and thus should be treated as such by the generating application. If this attribute is omitted then it is assumed that the corresponding shape is not specifically a text box.</p> <p>[Note: Because a shape is not specified to be a text box does not mean that it cannot have text attached to it. A text box is merely a specialized shape with specific properties. <i>end note</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema boolean datatype.</p> |

#### 16.5.22 Changed attribute for contentPart element (Part 1, §19.3.1.14)

| Attributes                                                                                   | Description                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>id (Relationship to Part)</p> <p>Namespace:<br/>.../officeDocument/2006/relationships</p> | <p>Specifies the relationship ID to a content part.</p> <p>[Example: Consider an XML element which has the following id attribute:</p> <p>&lt;... r:id="rId1" /&gt;</p> <p>The markup specifies the associated relationship part with relationship ID rId1 contains the corresponding relationship information for the parent XML element. <i>end example</i></p> |

| Attributes | Description                                                                                                  |
|------------|--------------------------------------------------------------------------------------------------------------|
|            | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1). |

### 16.5.23 Changed attribute for custData element (Part 1, §19.3.1.17)

| Attributes                                              | Description                                                                                                                        |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship ID)                                    | This attribute specifies the relationship id for referencing other resources outside the scope of the current PresentationML file. |
| Namespace:<br>.../officeDocument<br>/2006/relationships | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).                       |

### 16.5.24 Changed attribute for grpSpPr element (Part 1, §19.3.1.23)

| Attributes                            | Description                                                                                                                                                                                                                                                                                                     |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| bwMode (Black and White Mode)         | Specifies that the group shape should be rendered using only black and white coloring. That is the coloring information for the group shape should be converted to either black or white when rendering the corresponding shapes.                                                                               |
| Namespace:<br>.../drawingml/2006/main | No gray is to be used in rendering this image, only stark black and stark white.<br><br>[Note: This does not mean that the group shapes themselves are stored with only black and white color information. This attribute instead sets the rendering mode that the shapes use when rendering. <i>end note</i> ] |
|                                       | The possible values for this attribute are defined by the ST_BlackWhiteMode simple type (Part 1, §20.1.10.10).                                                                                                                                                                                                  |

### 16.5.25 Changed attribute for sldLayoutId element (Part 1, §19.3.1.40)

| Attributes                                              | Description                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (ID Tag)                                             | Specifies the relationship id value that the generating application can use to resolve which slide layout is used in the creation of the slide. This relationship id is used within the relationship file for the master slide to expose the location of the corresponding layout file within the presentation. |
| Namespace:<br>.../officeDocument<br>/2006/relationships | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).                                                                                                                                                                                                    |

### 16.5.26 Changed attribute for spPr element (Part 1, §19.3.1.44)

| Attributes                    | Description                                                                                                                                                                                                  |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| bwMode (Black and White Mode) | Specifies that the picture should be rendered using only black and white coloring. That is the coloring information for the picture should be converted to either black or white when rendering the picture. |

| Attributes                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Namespace:<br>.../drawingml/2006/main | <p>No gray is to be used in rendering this image, only stark black and stark white.</p> <p>[<i>Note</i>: This does not mean that the picture itself that is stored within the file is necessarily a black and white picture. This attribute instead sets the rendering mode that the picture has applied to when rendering. <i>end note</i>]</p> <p>The possible values for this attribute are defined by the ST_BlackWhiteMode simple type (Part 1, §20.1.10.10).</p> |

### 16.5.27 Changed attribute for tags element (Part 1, §19.3.1.47)

| Attributes                                                                      | Description                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship ID)<br><br>Namespace:<br>.../officeDocument/2006/relationships | <p>This attribute specifies the relationship identifier for the customer data tag. This allows for a link to a resource that is external from the current XML document but still contained within the presentation document.</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |

### 16.5.28 Changed attribute for xfrm element (Part 1, §19.3.1.53)

| Attributes                                                           | Description                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| flipH (Horizontal Flip)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies a horizontal flip. When true, this attribute defines that the shape is flipped horizontally about the center of its bounding box.</p> <p>[<i>Example</i>: The following illustrates the effect of a horizontal flip.</p> <div data-bbox="410 1232 1023 1402"> </div> <p><i>end example</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema boolean datatype.</p> |



| Attributes                                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| flipV (Vertical Flip)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies a vertical flip. When true, this attribute defines that the group is flipped vertically about the center of its bounding box.</p> <p>[Example: The following illustrates the effect of a vertical flip.</p>  <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema boolean datatype.</p> |
| rot (Rotation)<br><br>Namespace:<br>.../drawingml/2006/main        | <p>Specifies the rotation of the Graphic Frame. The units for which this attribute is specified in reside within the simple type definition referenced below.</p> <p>The possible values for this attribute are defined by the ST_Angle simple type (Part 1, §20.1.10.3).</p>                                                                                                                                                     |

### 16.5.29 Changed attribute for control element (Part 1, §19.3.2.1)

| Attributes                                                                      | Description                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship ID)<br><br>Namespace:<br>.../officeDocument/2006/relationships | <p>Specifies the relationship id that is used to identify this Embedded object from within a slide.</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |

### 16.5.30 Changed attribute for oleObj element (Part 1, §19.3.2.4)

| Attributes                                                                      | Description                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship ID)<br><br>Namespace:<br>.../officeDocument/2006/relationships | <p>Specifies the relationship id that is used to identify this Embedded object from within a slide.</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |

### 16.5.31 Changed attribute for pos element (Part 1, §19.4.5)

| Attributes            | Description                                                                                                                     |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------|
| x (X-Axis Coordinate) | <p>Specifies a coordinate on the x-axis. The origin point for this coordinate shall be specified by the parent XML element.</p> |

| Attributes                                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Namespace:<br>.../drawingml/2006/main                              | <p>[<i>Example</i>: Consider the following point on a basic wrapping polygon for a DrawingML object:</p> <pre>&lt;... x="0" y="100" /&gt;</pre> <p>The x attribute defines an x-coordinate of 0. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_Coordinate simple type (Part 1, §20.1.10.16).</p>                                                                                                                                  |
| y (Y-Axis Coordinate)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies a coordinate on the y-axis. The origin point for this coordinate shall be specified by the parent XML element.</p> <p>[<i>Example</i>: Consider the following point on a basic wrapping polygon for a DrawingML object:</p> <pre>&lt;... x="0" y="100" /&gt;</pre> <p>The y attribute defines a y-coordinate of 100. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_Coordinate simple type (Part 1, §20.1.10.16).</p> |

### 16.5.32 Changed attribute for snd element (Part 1, §19.5.68)

| Attributes                                                                                             | Description                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| embed (Embedded Audio File Relationship ID)<br><br>Namespace:<br>.../officeDocument/2006/relationships | <p>Specifies the identification information for an embedded audio file. This attribute is used to specify the location of an object that resides locally within the file. [<i>Note</i>: A list of suggested audio types is provided in Part 1, §15.2.2. <i>end note</i>]</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |
| name (Sound Name)<br><br>Namespace:<br>.../drawingml/2006/main                                         | <p>Specifies the original name or given short name for the corresponding sound. This is used to distinguish this sound from others by providing a human readable name for the attached sound should the user need to identify the sound among others within the UI.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                         |

### 16.5.33 Changed attribute for sndTgt element (Part 1, §19.5.70)

| Attributes                                  | Description                                                                                                                                                                                                                                                                  |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| embed (Embedded Audio File Relationship ID) | <p>Specifies the identification information for an embedded audio file. This attribute is used to specify the location of an object that resides locally within the file. [<i>Note</i>: A list of suggested audio types is provided in Part 1, §15.2.2. <i>end note</i>]</p> |

| Attributes                                                     | Description                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Namespace:<br>.../officeDocument<br>/2006/relationships        | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).                                                                                                                                                                                                                                                             |
| name (Sound Name)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies the original name or given short name for the corresponding sound. This is used to distinguish this sound from others by providing a human readable name for the attached sound should the user need to identify the sound among others within the UI.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |

STANDARDSISO.COM : Click to view the full PDF of ISO/IEC 29500-4:2011

# 17. DrawingML - Framework Reference Material

## 17.1 DrawingML - Main

### 17.1.1 Table of Contents

This subclause is informative.

|                                                                                                                      |            |
|----------------------------------------------------------------------------------------------------------------------|------------|
| <b>17.1.2 Simple Types</b> .....                                                                                     | <b>258</b> |
| 17.1.2.1 Additional member types for the union in ST_FixedPercentage (Part 1, §20.1.10.24) .....                     | 258        |
| 17.1.2.2 Additional member types for the union in ST_Percentage (Part 1, §20.1.10.40) .....                          | 259        |
| 17.1.2.3 Additional member types for the union in ST_PositiveFixedPercentage (Part 1, §20.1.10.45) ....              | 259        |
| 17.1.2.4 Additional member types for the union in ST_PositivePercentage (Part 1, §20.1.10.46) .....                  | 259        |
| 17.1.2.5 Additional member types for the union in ST_TextFontScalePercentOrPercentString (Part 1, §20.1.10.67) ..... | 259        |
| 17.1.2.6 Additional member types for the union in ST_TextSpacingPercentOrPercentString (Part 1, §20.1.10.77) .....   | 259        |
| 17.1.2.7 ST_FixedPercentageDecimal (Fixed Percentage) .....                                                          | 259        |
| 17.1.2.8 ST_PositiveFixedPercentageDecimal (Positive Fixed Percentage) .....                                         | 260        |
| 17.1.2.9 ST_PositivePercentageDecimal (Positive Percentage as Decimal Number) .....                                  | 260        |
| 17.1.2.10 ST_TextFontScalePercent (Text Font Scale Percentage) .....                                                 | 260        |
| 17.1.2.11 ST_TextSpacingPercent (Text Spacing Percent) .....                                                         | 261        |
| 17.1.2.12 ST_PercentageDecimal (Percentage as Decimal Number) .....                                                  | 261        |
| 17.1.2.13 Additional member types for the union in ST_PrSetCustVal (Part 1, §21.4.7.66) .....                        | 262        |
| 17.1.2.14 ST_TextBulletSizeDecimal (Bullet Size Percentage) .....                                                    | 262        |
| 17.1.2.15 Additional member types for the union in ST_TextBulletSize (Part 1, §20.1.10.86) .....                     | 262        |

End of informative text.

### 17.1.2 Simple Types

The following additional simple type information in the <http://schemas.openxmlformats.org/drawingml/2006/main> namespace is used for documents of a transitional conformance class.

#### 17.1.2.1 Additional member types for the union in ST\_FixedPercentage (Part 1, §20.1.10.24)

The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.

- The ST\_FixedPercentageDecimal simple type (§17.1.2.7).

#### 17.1.2.2 Additional member types for the union in ST\_Percentage (Part 1, §20.1.10.40)

The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.

- The ST\_PercentageDecimal simple type (Part 4, §12.1.2.12).

#### 17.1.2.3 Additional member types for the union in ST\_PositiveFixedPercentage (Part 1, §20.1.10.45)

The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.

- The ST\_PositiveFixedPercentageDecimal simple type (§17.1.2.8).

#### 17.1.2.4 Additional member types for the union in ST\_PositivePercentage (Part 1, §20.1.10.46)

The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.

- The ST\_PositivePercentageDecimal simple type (§17.1.2.9).

#### 17.1.2.5 Additional member types for the union in ST\_TextFontScalePercentOrPercentString (Part 1, §20.1.10.67)

The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.

- The ST\_TextFontScalePercent simple type (§17.1.2.10).

#### 17.1.2.6 Additional member types for the union in ST\_TextSpacingPercentOrPercentString (Part 1, §20.1.10.77)

The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.

- The ST\_TextSpacingPercent simple type (§17.1.2.11).

#### 17.1.2.7 ST\_FixedPercentageDecimal (Fixed Percentage)

This simple type represents a fixed percentage in 1000ths of a percent. Range from [-100%, 100%].

This simple type's contents are a restriction of the ST\_PercentageDecimal datatype (Part 1, §20.1.10.41).

This simple type also specifies the following restrictions:

- This simple type has a minimum value of greater than or equal to -100000.
- This simple type has a maximum value of less than or equal to 100000.

| Referenced By                            |
|------------------------------------------|
| ST_FixedPercentage (Part 1, §20.1.10.24) |

[*Note*: The W3C XML Schema definition of this simple type's content model (ST\_FixedPercentageDecimal) is located in §A.4.1. *end note*]

#### 17.1.2.8 ST\_PositiveFixedPercentageDecimal (Positive Fixed Percentage)

This simple type represents a positive fixed percentage in 1000ths of a percent. Range from [0%, 100%].

This simple type's contents are a restriction of the ST\_PercentageDecimal datatype (Part 1, §20.1.10.41).

This simple type also specifies the following restrictions:

- This simple type has a minimum value of greater than or equal to 0.
- This simple type has a maximum value of less than or equal to 100000.

| Referenced By                                                                                  |
|------------------------------------------------------------------------------------------------|
| ST_PositiveFixedPercentage (Part 1, §20.1.10.45); ST_TLTimeAnimateValueTime (Part 1, §19.7.39) |

[*Note*: The W3C XML Schema definition of this simple type's content model (ST\_PositiveFixedPercentageDecimal) is located in §A.4.1. *end note*]

#### 17.1.2.9 ST\_PositivePercentageDecimal (Positive Percentage as Decimal Number)

This simple type represents a positive percentage in 1000ths of a percent. Range from 0% up to and including infinity.

This simple type's contents are a restriction of the ST\_PercentageDecimal datatype (Part 1, §20.1.10.41).

This simple type also specifies the following restrictions:

- This simple type has a minimum value of greater than or equal to 0.

| Referenced By                               |
|---------------------------------------------|
| ST_PositivePercentage (Part 1, §20.1.10.46) |

[*Note*: The W3C XML Schema definition of this simple type's content model (ST\_PositivePercentageDecimal) is located in §A.4.1. *end note*]

#### 17.1.2.10 ST\_TextFontScalePercent (Text Font Scale Percentage)

This simple type specifies the percentage range text can be scaled to in order to fit, in 1000ths of a percent.

This simple type's contents are a restriction of the ST\_PercentageDecimal datatype (Part 1, §20.1.10.41).

This simple type also specifies the following restrictions:

- This simple type has a minimum value of greater than or equal to 1000.
- This simple type has a maximum value of less than or equal to 100000.

| Referenced By                                                |
|--------------------------------------------------------------|
| ST_TextFontScalePercentOrPercentString (Part 1, §20.1.10.67) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_TextFontScalePercent) is located in §A.4.1. *end note*]

#### 17.1.2.11 ST\_TextSpacingPercent (Text Spacing Percent)

This type specifies the range of text spacing in thousandths of a percent, in terms of a line.

This simple type's contents are a restriction of the ST\_PercentageDecimal datatype (Part 1, §20.1.10.41).

This simple type also specifies the following restrictions:

- This simple type has a minimum value of greater than or equal to 0.
- This simple type has a maximum value of less than or equal to 13200000.

| Referenced By                                              |
|------------------------------------------------------------|
| ST_TextSpacingPercentOrPercentString (Part 1, §20.1.10.77) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_TextSpacingPercent) is located in §A.4.1. *end note*]

#### 17.1.2.12 ST\_PercentageDecimal (Percentage as Decimal Number)

This simple type represents a percentage in 1000ths of a percent, e.g., a value of 1 represents 0.001% == 0.00001; a value of 100000 is equal to 100%. Percentages have no intrinsic units, but are used to scale other values with units.

This simple type's contents are a restriction of the W3C XML Schema int datatype.

| Referenced By                       |
|-------------------------------------|
| ST_Percentage (Part 1, §20.1.10.40) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_PercentageDecimal) is located in §A.4.1. *end note*]

17.1.2.13 Additional member types for the union in ST\_PrSetCustVal (Part 1, §21.4.7.66)

The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.

The W3C XML Schema int datatype.

17.1.2.14 ST\_TextBulletSizeDecimal (Bullet Size Percentage)

This simple type specifies the range that the bullet percent can be. A bullet percent is the size of the bullet with respect to the text that should follow it. 25000 = 25%, 400000 = 400%

This simple type's contents are a restriction of the ST\_PercentageDecimal datatype (Part 4, §12.1.2.12).

This simple type also specifies the following restrictions:

This simple type has a minimum value of greater than or equal to 25000.

This simple type has a maximum value of less than or equal to 400000.

| Referenced By                           |
|-----------------------------------------|
| ST_TextBulletSize (Part 1, §20.1.10.86) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_TextBulletSizeDecimal) is located in §A.4.1. *end note*]

17.1.2.15 Additional member types for the union in ST\_TextBulletSize (Part 1, §20.1.10.86)

The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.

The ST\_TextBulletSizeDecimal simple type (Part 4, §12.1.2.14).

17.2 DrawingML - Legacy Compatibility

Within the context of DrawingML, it shall be possible (for considerations to legacy compatibility) to be able to include explicit references to specific shapes within VML Drawing parts.

[Example: A VML Drawing part is used to define ink on a PresentationML slide, but the resulting ink is referenced from the slide by its shape ID using the elements of this namespace. *end example*]

17.2.1 Table of Contents

This subclause is informative.

|                                                                              |     |
|------------------------------------------------------------------------------|-----|
| 17.2.2 Basics .....                                                          | 263 |
| 17.2.2.1 legacyDrawing (Legacy Drawing Object) .....                         | 264 |
| 17.3.1 Changed attribute for hlinkHover element (Part 1, §20.1.2.2.23) ..... | 264 |
| 17.3.2 Changed attribute for snd element (Part 1, §20.1.2.2.32) .....        | 265 |



|         |                                                                       |     |
|---------|-----------------------------------------------------------------------|-----|
| 17.3.3  | Changed attribute for audioFile element (Part 1, §20.1.3.2) .....     | 265 |
| 17.3.4  | Changed attribute for quickTimeFile element (Part 1, §20.1.3.4) ..... | 265 |
| 17.3.5  | Changed attribute for videoFile element (Part 1, §20.1.3.6) .....     | 265 |
| 17.3.6  | Changed attribute for wavAudioFile element (Part 1, §20.1.3.7) .....  | 266 |
| 17.3.7  | Changed attribute for blip element (Part 1, §20.1.8.13) .....         | 266 |
| 17.3.8  | Changed attribute for blipFill element (Part 1, §20.2.2.1) .....      | 266 |
| 17.3.9  | Changed attribute for cNvPicPr element (Part 1, §20.2.2.2) .....      | 267 |
| 17.3.10 | Changed attribute for cNvPr element (Part 1, §20.2.2.3) .....         | 267 |
| 17.3.11 | Changed attribute for spPr element (Part 1, §20.2.2.6) .....          | 269 |
| 17.3.12 | Changed attribute for docPr element (Part 1, §20.4.2.5) .....         | 269 |
| 17.3.13 | Changed attribute for extent element (Part 1, §20.4.2.7) .....        | 271 |
| 17.3.14 | Changed attribute for lineTo element (Part 1, §20.4.2.9) .....        | 272 |
| 17.3.15 | Changed attribute for simplePos element (Part 1, §20.4.2.13) .....    | 272 |
| 17.3.16 | Changed attribute for start element (Part 1, §20.4.2.14) .....        | 273 |
| 17.3.17 | Changed attribute for blipFill element (Part 1, §20.5.2.2) .....      | 274 |
| 17.3.18 | Changed attribute for cNvPicPr element (Part 1, §20.5.2.7) .....      | 274 |
| 17.3.19 | Changed attribute for cNvPr element (Part 1, §20.5.2.8) .....         | 275 |
| 17.3.20 | Changed attribute for cNvSpPr element (Part 1, §20.5.2.9) .....       | 276 |
| 17.3.21 | Changed attribute for contentPart element (Part 1, §20.5.2.12) .....  | 277 |
| 17.3.22 | Changed attribute for ext element (Part 1, §20.5.2.14) .....          | 277 |
| 17.3.23 | Changed attribute for grpSpPr element (Part 1, §20.5.2.18) .....      | 278 |
| 17.3.24 | Changed attribute for pos element (Part 1, §20.5.2.26) .....          | 278 |
| 17.3.25 | Changed attribute for spPr element (Part 1, §20.5.2.30) .....         | 279 |
| 17.3.26 | Changed attribute for xfrm element (Part 1, §20.5.2.36) .....         | 279 |

End of informative text.

## 17.2.2 Basics

Legacy Compatibility is part of the shape definitions and properties of the DrawingML framework.

### 17.2.2.1 legacyDrawing (Legacy Drawing Object)

This element specifies the shape ID for a legacy drawing object. These legacy drawing objects all have a shape ID associated with them that is unique across the entire document. In order to store these legacy shape IDs as well as new shape IDs this legacyDrawing element should be used.

| Attributes      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| spid (Shape ID) | <p>Legacy Shape ID that is unique throughout the entire document. Legacy shape IDs should be assigned based on which portion of the document the drawing resides on. The assignment of these ids is broken down into clusters of 1024 values. The first cluster is 1-1024, the second 1025-2048 and so on.</p> <p>[<i>Example:</i> Within a word processing application the spid should be assigned based on the page that the drawing resides on. If the drawing resides on the second page then the assigned spid should be a value between 1025 and 2048. <i>end example</i>]</p> <p>[<i>Example:</i> Within a spreadsheet application the spid should be assigned based on the sheet that the drawing resides on. If the drawing resides on the second sheet then the assigned spid should be a value between 1025 and 2048. <i>end example</i>]</p> <p>[<i>Example:</i> Within a presentation application the spid should be assigned based on the slide that the drawing resides on. If the drawing resides on the second slide then the assigned spid should be a value between 1025 and 2048. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_ShapeID simple type (Part 1, §20.1.10.55).</p> |

[*Note:* The W3C XML Schema definition of this element's content model (CT\_Compat) is located in §A.4.3. *end note*]

## 17.3 Changed attributes

The following attributes, which are defined in subclauses within Part 1, §20, "DrawingML - Framework Reference Material", have different source relationships when used in documents of the Transitional conformance class:

### 17.3.1 Changed attribute for hlinkHover element (Part 1, §20.1.2.2.23)

| Attributes                                              | Description                                                                                                                                                 |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Drawing Object Hyperlink Target)                    | Specifies the relationship id that when looked up in this slides relationship file contains the target of this hyperlink. This attribute cannot be omitted. |
| Namespace:<br>.../officeDocument<br>/2006/relationships | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).                                                |

### 17.3.2 Changed attribute for snd element (Part 1, §20.1.2.2.32)

| Attributes                                              | Description                                                                                                                                                                                                                                                     |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| embed (Embedded Audio File Relationship ID)             | Specifies the identification information for an embedded audio file. This attribute is used to specify the location of an object that resides locally within the file. [Note: A list of suggested audio types is provided in Part 1, §15.2.2. <i>end note</i> ] |
| Namespace:<br>.../officeDocument<br>/2006/relationships | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).                                                                                                                                                    |

### 17.3.3 Changed attribute for audioFile element (Part 1, §20.1.3.2)

| Attributes                                              | Description                                                                                                                                                      |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| link (Linked Relationship ID)                           | Specifies the identification information for a linked object. This attribute is used to specify the location of an object that does not reside within this file. |
| Namespace:<br>.../officeDocument<br>/2006/relationships | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).                                                     |

### 17.3.4 Changed attribute for quickTimeFile element (Part 1, §20.1.3.4)

| Attributes                                              | Description                                                                                                                                                      |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| link (Linked Relationship ID)                           | Specifies the identification information for a linked object. This attribute is used to specify the location of an object that does not reside within this file. |
| Namespace:<br>.../officeDocument<br>/2006/relationships | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).                                                     |

### 17.3.5 Changed attribute for videoFile element (Part 1, §20.1.3.6)

| Attributes                                              | Description                                                                                                                                                      |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| link (Linked Relationship ID)                           | Specifies the identification information for a linked object. This attribute is used to specify the location of an object that does not reside within this file. |
| Namespace:<br>.../officeDocument<br>/2006/relationships | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).                                                     |

### 17.3.6 Changed attribute for wavAudioFile element (Part 1, §20.1.3.7)

| Attributes                                          | Description                                                                                                                                                                                                                                                     |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| embed (Embedded Audio File Relationship ID)         | Specifies the identification information for an embedded audio file. This attribute is used to specify the location of an object that resides locally within the file. [Note: A list of suggested audio types is provided in Part 1, §15.2.2. <i>end note</i> ] |
| Namespace:<br>.../officeDocument/2006/relationships | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).                                                                                                                                                    |

### 17.3.7 Changed attribute for blip element (Part 1, §20.1.8.13)

| Attributes                                          | Description                                                                                                                                        |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| embed (Embedded Picture Reference)                  | Specifies the identification information for an embedded picture. This attribute is used to specify an image that resides locally within the file. |
| Namespace:<br>.../officeDocument/2006/relationships | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).                                       |
| link (Linked Picture Reference)                     | Specifies the identification information for a linked picture. This attribute is used to specify an image that does not reside within this file.   |
| Namespace:<br>.../officeDocument/2006/relationships | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).                                       |

### 17.3.8 Changed attribute for blipFill element (Part 1, §20.2.2.1)

| Attributes                            | Description                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| dpi (DPI Setting)                     | Specifies the DPI (dots per inch) used to calculate the size of the blip. If not present or zero, the DPI in the blip is used.                                                                                                                                                                                                                   |
| Namespace:<br>.../drawingml/2006/main | [Note: This attribute is primarily used to keep track of the picture quality within a document. There are different levels of quality needed for print than on-screen viewing and thus a need to track this information. <i>end note</i> ]<br><br>The possible values for this attribute are defined by the W3C XML Schema unsignedInt datatype. |

| Attributes                                                                              | Description                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>rotWithShape</b><br>(Rotate With Shape)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies that the fill should rotate with the shape. That is, when the shape that has been filled with a picture and the containing shape (say a rectangle) is transformed with a rotation then the fill is transformed with the same rotation.</p> <p>The possible values for this attribute are defined by the W3C XML Schema boolean datatype.</p> |

### 17.3.9 Changed attribute for cNvPicPr element (Part 1, §20.2.2.2)

| Attributes                                                                                               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>preferRelativeResi</b><br>ze (Relative Resize Preferred)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies if the user interface should show the resizing of the picture based on the picture's current size or its original size. If this attribute is set to true, then scaling is relative to the original picture size as opposed to the current picture size.</p> <p>[<i>Example</i>: Consider the case where a picture has been resized within a document and is now 50% of the originally inserted picture size. Now if the user chooses to make a later adjustment to the size of this picture within the generating application, then the value of this attribute should be checked.</p> <p>If this attribute is set to true then a value of 50% is shown. Similarly, if this attribute is set to false, then a value of 100% should be shown because the picture has not yet been resized from its current (smaller) size. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema boolean datatype.</p> |

### 17.3.10 Changed attribute for cNvPr element (Part 1, §20.2.2.3)

| Attributes                                                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>descr</b> (Alternative Text for Object)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies alternative text for the current DrawingML object, for use by assistive technologies or applications that do not display the current object.</p> <p>If this element is omitted, then no alternative text is present for the parent object.</p> <p>[<i>Example</i>: Consider a DrawingML object defined as follows:</p> <pre>&lt;... descr="A picture of a bowl of fruit"&gt;</pre> <p>The descr attribute contains alternative text that can be used in place of the actual DrawingML object. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |

| Attributes                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>hidden (Hidden)</p> <p>Namespace:<br/>.../drawingml/2006/main</p>        | <p>Specifies whether this DrawingML object is displayed. When a DrawingML object is displayed within a document, that object can be hidden (i.e., present, but not visible). This attribute determines whether the object is rendered or made hidden. [<i>Note: An application can have settings that allow this object to be viewed. end note</i>]</p> <p>If this attribute is omitted, then the parent DrawingML object shall be displayed (i.e., not hidden).</p> <p>[<i>Example: Consider an inline DrawingML object that must be hidden within the document's content. This setting would be specified as follows:</i></p> <pre data-bbox="451 638 760 672">&lt;... hidden="true" /&gt;</pre> <p>The hidden attribute has a value of true, which specifies that the DrawingML object is hidden and not displayed when the document is displayed. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema boolean datatype.</p> |
| <p>id (Unique Identifier)</p> <p>Namespace:<br/>.../drawingml/2006/main</p> | <p>Specifies a unique identifier for the current DrawingML object within the current document. This ID can be used to assist in uniquely identifying this object so that it can be referred to by other parts of the document.</p> <p>If multiple objects within the same document share the same id attribute value, then the document shall be considered non-conformant.</p> <p>[<i>Example: Consider a DrawingML object defined as follows:</i></p> <pre data-bbox="451 1218 678 1251">&lt;... id="10" ...&gt;</pre> <p>The id attribute has a value of 10, which is the unique identifier for this DrawingML object. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_DrawingElementId simple type (Part 1, §20.1.10.21).</p>                                                                                                                                                                                                       |

| Attributes                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name (Name)<br><br>Namespace:<br>.../drawingml/2006/main   | <p>Specifies the name of the object. [<i>Note</i>: Typically, this is used to store the original file name of a picture object. <i>end note</i>]</p> <p>[<i>Example</i>: Consider a DrawingML object defined as follows:</p> <pre>&lt; ... name="foo.jpg" &gt;</pre> <p>The name attribute has a value of foo.jpg, which is the name of this DrawingML object. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| title (Title)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies the title (caption) of the current DrawingML object.</p> <p>If this attribute is omitted, then no title text is present for the parent object.</p> <p>[<i>Example</i>: Consider a DrawingML object defined as follows:</p> <pre>&lt;... title="Process Flow Diagram"&gt;</pre> <p><i>end example</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                 |

### 17.3.11 Changed attribute for spPr element (Part 1, §20.2.2.6)

| Attributes                                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| bwMode (Black and White Mode)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies that the picture should be rendered using only black and white coloring. That is the coloring information for the picture should be converted to either black or white when rendering the picture.</p> <p>No gray is to be used in rendering this image, only stark black and stark white.</p> <p>[<i>Note</i>: This does not mean that the picture itself that is stored within the file is necessarily a black and white picture. This attribute instead sets the rendering mode that the picture has applied to when rendering. <i>end note</i>]</p> <p>The possible values for this attribute are defined by the ST_BlackWhiteMode simple type (Part 1, §20.1.10.10).</p> |

### 17.3.12 Changed attribute for docPr element (Part 1, §20.4.2.5)

| Attributes                          | Description                                                                                                                                                   |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| descr (Alternative Text for Object) | <p>Specifies alternative text for the current DrawingML object, for use by assistive technologies or applications that do not display the current object.</p> |

| Attributes                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Namespace:<br/>.../drawingml/2006/main</p>                               | <p>If this element is omitted, then no alternative text is present for the parent object.</p> <p>[<i>Example</i>: Consider a DrawingML object defined as follows:</p> <pre>&lt;... descr="A picture of a bowl of fruit"&gt;</pre> <p>The descr attribute contains alternative text that can be used in place of the actual DrawingML object. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p>hidden (Hidden)</p> <p>Namespace:<br/>.../drawingml/2006/main</p>        | <p>Specifies whether this DrawingML object is displayed. When a DrawingML object is displayed within a document, that object can be hidden (i.e., present, but not visible). This attribute determines whether the object is rendered or made hidden. [<i>Note</i>: An application can have settings that allow this object to be viewed. <i>end note</i>]</p> <p>If this attribute is omitted, then the parent DrawingML object shall be displayed (i.e., not hidden).</p> <p>[<i>Example</i>: Consider an inline DrawingML object that must be hidden within the document's content. This setting would be specified as follows:</p> <pre>&lt;... hidden="true" /&gt;</pre> <p>The hidden attribute has a value of true, which specifies that the DrawingML object is hidden and not displayed when the document is displayed. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema boolean datatype.</p> |
| <p>id (Unique Identifier)</p> <p>Namespace:<br/>.../drawingml/2006/main</p> | <p>Specifies a unique identifier for the current DrawingML object within the current document. This ID can be used to assist in uniquely identifying this object so that it can be referred to by other parts of the document.</p> <p>If multiple objects within the same document share the same id attribute value, then the document shall be considered non-conformant.</p> <p>[<i>Example</i>: Consider a DrawingML object defined as follows:</p> <pre>&lt;... id="10" ... &gt;</pre> <p>The id attribute has a value of 10, which is the unique identifier for this DrawingML object. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_DrawingElementId simple</p>                                                                                                                                                                                                                                           |



| Attributes                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                            | type (Part 1, §20.1.10.21).                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| name (Name)<br><br>Namespace:<br>.../drawingml/2006/main   | <p>Specifies the name of the object. [<i>Note</i>: Typically, this is used to store the original file name of a picture object. <i>end note</i>]</p> <p>[<i>Example</i>: Consider a DrawingML object defined as follows:</p> <pre>&lt; ... name="foo.jpg" &gt;</pre> <p>The name attribute has a value of <code>foo.jpg</code>, which is the name of this DrawingML object. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| title (Title)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies the title (caption) of the current DrawingML object.</p> <p>If this attribute is omitted, then no title text is present for the parent object.</p> <p>[<i>Example</i>: Consider a DrawingML object defined as follows:</p> <pre>&lt;... title="Process Flow Diagram"&gt;</pre> <p><i>end example</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                              |

### 17.3.13 Changed attribute for extent element (Part 1, §20.4.2.7)

| Attributes                                                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| cx (Extent Width)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies the width of the extents rectangle in EMUs. This rectangle shall dictate the size of the object as displayed (the result of any scaling to the original object).</p> <p>[<i>Example</i>: Consider a DrawingML object specified as follows:</p> <pre>&lt;... cx="1828800" cy="200000"/&gt;</pre> <p>The <code>cx</code> attribute specifies that this object has a width of 1828800 EMUs (English Metric Units). <i>end example</i>]</p> <p>The possible values for this attribute are defined by the <code>ST_PositiveCoordinate</code> simple type (Part 1, §20.1.10.42).</p> |

| Attributes                                                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| cy (Extent Height)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies the height of the extents rectangle in EMUs. This rectangle shall dictate the size of the object as displayed (the result of any scaling to the original object).</p> <p>[<i>Example:</i> Consider a DrawingML object specified as follows:</p> <pre>&lt; ... cx="1828800" cy="200000" /&gt;</pre> <p>The cy attribute specifies that this object has a height of 200000 EMUs (English Metric Units). <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_PositiveCoordinate simple type (Part 1, §20.1.10.42).</p> |

#### 17.3.14 Changed attribute for lineTo element (Part 1, §20.4.2.9)

| Attributes                                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| x (X-Axis Coordinate)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies a coordinate on the x-axis. The origin point for this coordinate shall be specified by the parent XML element.</p> <p>[<i>Example:</i> Consider the following point on a basic wrapping polygon for a DrawingML object:</p> <pre>&lt;... x="0" y="100" /&gt;</pre> <p>The x attribute defines an x-coordinate of 0. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_Coordinate simple type (Part 1, §20.1.10.16).</p>  |
| y (Y-Axis Coordinate)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies a coordinate on the y-axis. The origin point for this coordinate shall be specified by the parent XML element.</p> <p>[<i>Example:</i> Consider the following point on a basic wrapping polygon for a DrawingML object:</p> <pre>&lt;... x="0" y="100" /&gt;</pre> <p>The y attribute defines a y-coordinate of 100. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_Coordinate simple type (Part 1, §20.1.10.16).</p> |

#### 17.3.15 Changed attribute for simplePos element (Part 1, §20.4.2.13)

| Attributes            | Description                                                                                                                     |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------|
| x (X-Axis Coordinate) | <p>Specifies a coordinate on the x-axis. The origin point for this coordinate shall be specified by the parent XML element.</p> |

| Attributes                                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Namespace:<br>.../drawingml/2006/main                              | <p>[<i>Example:</i> Consider the following point on a basic wrapping polygon for a DrawingML object:</p> <pre>&lt;... x="0" y="100" /&gt;</pre> <p>The x attribute defines an x-coordinate of 0. <i>end example</i></p> <p>The possible values for this attribute are defined by the ST_Coordinate simple type (Part 1, §20.1.10.16).</p>                                                                                                                                  |
| y (Y-Axis Coordinate)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies a coordinate on the y-axis. The origin point for this coordinate shall be specified by the parent XML element.</p> <p>[<i>Example:</i> Consider the following point on a basic wrapping polygon for a DrawingML object:</p> <pre>&lt;... x="0" y="100" /&gt;</pre> <p>The y attribute defines a y-coordinate of 100. <i>end example</i></p> <p>The possible values for this attribute are defined by the ST_Coordinate simple type (Part 1, §20.1.10.16).</p> |

### 17.3.16 Changed attribute for start element (Part 1, §20.4.2.14)

| Attributes                                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| x (X-Axis Coordinate)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies a coordinate on the x-axis. The origin point for this coordinate shall be specified by the parent XML element.</p> <p>[<i>Example:</i> Consider the following point on a basic wrapping polygon for a DrawingML object:</p> <pre>&lt;... x="0" y="100" /&gt;</pre> <p>The x attribute defines an x-coordinate of 0. <i>end example</i></p> <p>The possible values for this attribute are defined by the ST_Coordinate simple type (Part 1, §20.1.10.16).</p> |

| Attributes                            | Description                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| y (Y-Axis Coordinate)                 | Specifies a coordinate on the y-axis. The origin point for this coordinate shall be specified by the parent XML element.                                                                                                                                                                                                             |
| Namespace:<br>.../drawingml/2006/main | <p>[Example: Consider the following point on a basic wrapping polygon for a DrawingML object:</p> <pre>&lt;... x="0" y="100" /&gt;</pre> <p>The y attribute defines a y-coordinate of 100. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_Coordinate simple type (Part 1, §20.1.10.16).</p> |

### 17.3.17 Changed attribute for blipFill element (Part 1, §20.5.2.2)

| Attributes                            | Description                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| dpi (DPI Setting)                     | Specifies the DPI (dots per inch) used to calculate the size of the blip. If not present or zero, the DPI in the blip is used.                                                                                                                                                                                                                         |
| Namespace:<br>.../drawingml/2006/main | <p>[Note: This attribute is primarily used to keep track of the picture quality within a document. There are different levels of quality needed for print than on-screen viewing and thus a need to track this information. <i>end note</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema unsignedInt datatype.</p> |
| rotWithShape (Rotate With Shape)      | Specifies that the fill should rotate with the shape. That is, when the shape that has been filled with a picture and the containing shape (say a rectangle) is transformed with a rotation then the fill is transformed with the same rotation.                                                                                                       |
| Namespace:<br>.../drawingml/2006/main | The possible values for this attribute are defined by the W3C XML Schema boolean datatype.                                                                                                                                                                                                                                                             |

### 17.3.18 Changed attribute for cNvPicPr element (Part 1, §20.5.2.7)

| Attributes                                       | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| preferRelativeResize (Relative Resize Preferred) | Specifies if the user interface should show the resizing of the picture based on the picture's current size or its original size. If this attribute is set to true, then scaling is relative to the original picture size as opposed to the current picture size.                                                                                                                                                                                                                                                 |
| Namespace:<br>.../drawingml/2006/main            | <p>[Example: Consider the case where a picture has been resized within a document and is now 50% of the originally inserted picture size. Now if the user chooses to make a later adjustment to the size of this picture within the generating application, then the value of this attribute should be checked.</p> <p>If this attribute is set to true then a value of 50% is shown. Similarly, if this attribute is set to false, then a value of 100% should be shown because the picture has not yet been</p> |

| Attributes | Description                                                                                                                                                           |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <p>resized from its current (smaller) size. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema boolean datatype.</p> |

### 17.3.19 Changed attribute for cNvPr element (Part 1, §20.5.2.8)

| Attributes                                                                               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>descr (Alternative Text for Object)</p> <p>Namespace:<br/>.../drawingml/2006/main</p> | <p>Specifies alternative text for the current DrawingML object, for use by assistive technologies or applications that do not display the current object.</p> <p>If this element is omitted, then no alternative text is present for the parent object.</p> <p>[<i>Example</i>: Consider a DrawingML object defined as follows:</p> <pre>&lt;... descr="A picture of a bowl of fruit"&gt;</pre> <p>The descr attribute contains alternative text that can be used in place of the actual DrawingML object. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                        |
| <p>hidden (Hidden)</p> <p>Namespace:<br/>.../drawingml/2006/main</p>                     | <p>Specifies whether this DrawingML object is displayed. When a DrawingML object is displayed within a document, that object can be hidden (i.e., present, but not visible). This attribute determines whether the object is rendered or made hidden. [<i>Note</i>: An application can have settings that allow this object to be viewed. <i>end note</i>]</p> <p>If this attribute is omitted, then the parent DrawingML object shall be displayed (i.e., not hidden).</p> <p>[<i>Example</i>: Consider an inline DrawingML object that must be hidden within the document's content. This setting would be specified as follows:</p> <pre>&lt;... hidden="true" /&gt;</pre> <p>The hidden attribute has a value of true, which specifies that the DrawingML object is hidden and not displayed when the document is displayed. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema boolean datatype.</p> |

| Attributes                                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>id (Unique Identifier)</b><br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies a unique identifier for the current DrawingML object within the current document. This ID can be used to assist in uniquely identifying this object so that it can be referred to by other parts of the document.</p> <p>If multiple objects within the same document share the same id attribute value, then the document shall be considered non-conformant.</p> <p>[<i>Example</i>: Consider a DrawingML object defined as follows:</p> <pre>&lt;... id="10" ... &gt;</pre> <p>The id attribute has a value of 10, which is the unique identifier for this DrawingML object. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_DrawingElementId simple type (Part 1, §20.1.10.21).</p> |
| <b>name (Name)</b><br><br>Namespace:<br>.../drawingml/2006/main            | <p>Specifies the name of the object. [<i>Note</i>: Typically, this is used to store the original file name of a picture object. <i>end note</i>]</p> <p>[<i>Example</i>: Consider a DrawingML object defined as follows:</p> <pre>&lt; ... name="foo.jpg" &gt;</pre> <p>The name attribute has a value of foo.jpg, which is the name of this DrawingML object. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the type W3C XML Schema string.</p>                                                                                                                                                                                                                                                          |
| <b>title (Title)</b><br><br>Namespace:<br>.../drawingml/2006/main          | <p>Specifies the title (caption) of the current DrawingML object.</p> <p>If this attribute is omitted, then no title text is present for the parent object.</p> <p>[<i>Example</i>: Consider a DrawingML object defined as follows:</p> <pre>&lt;... title="Process Flow Diagram"&gt;</pre> <p><i>end example</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                      |

### 17.3.20 Changed attribute for cNvSpPr element (Part 1, §20.5.2.9)

| Attributes              | Description                                                                                                                                                                     |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>txBox (Text Box)</b> | Specifies that the corresponding shape is a text box and thus should be treated as such by the generating application. If this attribute is omitted then it is assumed that the |

| Attributes                            | Description                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Namespace:<br>.../drawingml/2006/main | <p>corresponding shape is not specifically a text box.</p> <p>[<i>Note</i>: Because a shape is not specified to be a text box does not mean that it cannot have text attached to it. A text box is merely a specialized shape with specific properties. <i>end note</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema boolean datatype.</p> |

### 17.3.21 Changed attribute for contentPart element (Part 1, §20.5.2.12)

| Attributes                                                                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship to Part)<br><br>Namespace:<br>.../officeDocument/2006/relationships | <p>Specifies the relationship ID to a content part.</p> <p>[<i>Example</i>: Consider an XML element that has the following id attribute:</p> <pre>&lt;... r:id="rId1" /&gt;</pre> <p>The markup specifies the associated relationship part with relationship ID rId1 contains the corresponding relationship information for the parent XML element. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |

### 17.3.22 Changed attribute for ext element (Part 1, §20.5.2.14)

| Attributes                                                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| cx (Extent Width)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies the width of the extents rectangle in EMUs. This rectangle shall dictate the size of the object as displayed (the result of any scaling to the original object).</p> <p>[<i>Example</i>: Consider a DrawingML object specified as follows:</p> <pre>&lt;... cx="1828800" cy="200000"/&gt;</pre> <p>The cx attribute specifies that this object has a width of 1828800 EMUs (English Metric Units). <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_PositiveCoordinate simple type (Part 1, §20.1.10.42).</p> |

| Attributes                                                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| cy (Extent Height)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies the height of the extents rectangle in EMUs. This rectangle shall dictate the size of the object as displayed (the result of any scaling to the original object).</p> <p>[<i>Example</i>: Consider a DrawingML object specified as follows:</p> <pre>&lt; ... cx="1828800" cy="200000" /&gt;</pre> <p>The cy attribute specifies that this object has a height of 200000 EMUs (English Metric Units). <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_PositiveCoordinate simple type (Part 1, §20.1.10.42).</p> |

### 17.3.23 Changed attribute for grpSpPr element (Part 1, §20.5.2.18)

| Attributes                                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| bwMode (Black and White Mode)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies that the group shape should be rendered using only black and white coloring. That is the coloring information for the group shape should be converted to either black or white when rendering the corresponding shapes.</p> <p>No gray is to be used in rendering this image, only stark black and stark white.</p> <p>[<i>Note</i>: This does not mean that the group shapes themselves are stored with only black and white color information. This attribute instead sets the rendering mode that the shapes use when rendering. <i>end note</i>]</p> <p>The possible values for this attribute are defined by the ST_BlackWhiteMode simple type (Part 1, §20.1.10.10).</p> |

### 17.3.24 Changed attribute for pos element (Part 1, §20.5.2.26)

| Attributes                                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| x (X-Axis Coordinate)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies a coordinate on the x-axis. The origin point for this coordinate shall be specified by the parent XML element.</p> <p>[<i>Example</i>: Consider the following point on a basic wrapping polygon for a DrawingML object:</p> <pre>&lt;... x="0" y="100" /&gt;</pre> <p>The x attribute defines an x-coordinate of 0. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_Coordinate simple type (Part 1, §20.1.10.16).</p> |



| Attributes                            | Description                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| y (Y-Axis Coordinate)                 | Specifies a coordinate on the y-axis. The origin point for this coordinate shall be specified by the parent XML element.                                                                                                                                                                                                            |
| Namespace:<br>.../drawingml/2006/main | <p>[Example: Consider the following point on a basic wrapping polygon for a DrawingML object:</p> <pre>&lt;... x="0" y="100" /&gt;</pre> <p>The y attribute defines a y-coordinate of 100. <i>end example</i></p> <p>The possible values for this attribute are defined by the ST_Coordinate simple type (Part 1, §20.1.10.16).</p> |

### 17.3.25 Changed attribute for spPr element (Part 1, §20.5.2.30)

| Attributes                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| bwMode (Black and White Mode)         | Specifies that the picture should be rendered using only black and white coloring. That is the coloring information for the picture should be converted to either black or white when rendering the picture.                                                                                                                                                                                                                                                    |
| Namespace:<br>.../drawingml/2006/main | <p>No gray is to be used in rendering this image, only stark black and stark white.</p> <p>[Note: This does not mean that the picture itself that is stored within the file is necessarily a black and white picture. This attribute instead sets the rendering mode that the picture has applied to when rendering. <i>end note</i>]</p> <p>The possible values for this attribute are defined by the ST_BlackWhiteMode simple type (Part 1, §20.1.10.10).</p> |

### 17.3.26 Changed attribute for xfrm element (Part 1, §20.5.2.36)

| Attributes                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| flipH (Horizontal Flip)               | Specifies a horizontal flip. When true, this attribute defines that the shape is flipped horizontally about the center of its bounding box.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Namespace:<br>.../drawingml/2006/main | <p>[Example: The following illustrates the effect of a horizontal flip.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Unflipped</p> </div> <div style="text-align: center;">  <p>flipH True</p> </div> </div> <p><i>end example</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema boolean datatype.</p> |

| Attributes                                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>flipV (Vertical Flip)</p> <p>Namespace:<br/>.../drawingml/2006/main</p> | <p>Specifies a vertical flip. When true, this attribute defines that the group is flipped vertically about the center of its bounding box.</p> <p>[Example: The following illustrates the effect of a vertical flip.</p> <div data-bbox="412 422 1027 594">  </div> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema boolean datatype.</p> |
| <p>rot (Rotation)</p> <p>Namespace:<br/>.../drawingml/2006/main</p>        | <p>Specifies the rotation of the Graphic Frame. The units for that this attribute is specified in reside within the simple type definition referenced below.</p> <p>The possible values for this attribute are defined by the ST_Angle simple type (Part 1, §20.1.10.3).</p>                                                                                                                                                                                                |

# 18. DrawingML - Components Reference Material

## 18.1 DrawingML - Charts

### 18.1.1 Table of Contents

This subclause is informative.

|                                                                                           |            |
|-------------------------------------------------------------------------------------------|------------|
| <b>18.1.2 Elements</b> .....                                                              | <b>282</b> |
| 18.1.2.1 legacyDrawingHF (Legacy Drawing for Headers and Footers) .....                   | 282        |
| <b>18.1.3 Simple Types</b> .....                                                          | <b>283</b> |
| 18.1.3.1 Additional member types for union in ST_DepthPercent .....                       | 283        |
| 18.1.3.2 ST_DepthPercentUShort (Depth Percent UnsignedShort) (Part 1, §21.2.3.9) .....    | 283        |
| 18.1.3.3 Additional member types for union in ST_HPercent (Part 1, §21.2.3.19) .....      | 283        |
| 18.1.3.4 ST_HPercentUShort (Depth Percent UnsignedShort) .....                            | 283        |
| 18.1.3.5 Additional member types for union in ST_GapAmount (Part 1, §21.2.3.16) .....     | 283        |
| 18.1.3.6 ST_GapAmountUShort (Gap Amount UnsignedShort) .....                              | 284        |
| 18.1.3.7 Additional member types for union in ST_SecondPieSize (Part 1, §21.2.3.41) ..... | 284        |
| 18.1.3.8 ST_SecondPieSizeUShort (Second Pie Size UnsignedShort) .....                     | 284        |
| 18.1.3.9 Additional member types for union in ST_HoleSize (Part 1, §21.2.3.18) .....      | 284        |
| 18.1.3.10 ST_HoleSizeUByte (Hole Size UnsignedByte) .....                                 | 284        |
| 18.1.3.11 Additional member types for union in ST_LblOffset (Part 1, §21.2.3.23) .....    | 285        |
| 18.1.3.12 ST_LblOffsetUShort (Label Offset UnsignedShort) .....                           | 285        |
| 18.1.3.13 Additional member types for union in ST_Overlap (Part 1, §21.2.3.31) .....      | 285        |
| 18.1.3.14 ST_OverlapByte (Overlap Byte) .....                                             | 285        |
| 18.1.3.15 Additional member types for union in ST_BubbleScale (Part 1, §21.2.3.5) .....   | 286        |
| 18.1.3.16 ST_BubbleScaleUInt (Bubble Scale UnsignedInt) .....                             | 286        |
| 18.1.3.17 Additional member types for union in ST_Thickness (Part 1, §21.2.3.206) .....   | 286        |
| <b>18.2.1 Changed attribute for hlinkClick element (Part 1, §21.1.2.3.5)</b> .....        | <b>286</b> |
| <b>18.2.2 Changed attribute for hlinkMouseOver element (Part 1, §21.1.2.3.6)</b> .....    | <b>287</b> |
| <b>18.2.3 Changed attribute for chart element (Part 1, §21.2.2.26)</b> .....              | <b>287</b> |
| <b>18.2.4 Changed attribute for clrMapOvr element (Part 1, §21.2.2.30)</b> .....          | <b>287</b> |
| <b>18.2.5 Changed attribute for externalData element (Part 1, §21.2.2.63)</b> .....       | <b>289</b> |
| <b>18.2.6 Changed attribute for spPr element (Part 1, §21.2.2.197)</b> .....              | <b>289</b> |
| <b>18.2.7 Changed attribute for userShapes element (Part 1, §21.2.2.221)</b> .....        | <b>289</b> |
| <b>18.2.8 Changed attribute for blipFill element (Part 1, §21.3.2.2)</b> .....            | <b>290</b> |
| <b>18.2.9 Changed attribute for cNvPicPr element (Part 1, §21.3.2.6)</b> .....            | <b>290</b> |

|         |                                                                  |     |
|---------|------------------------------------------------------------------|-----|
| 18.2.10 | Changed attribute for cNvPr element (Part 1, §21.3.2.7) .....    | 290 |
| 18.2.11 | Changed attribute for cNvSpPr element (Part 1, §21.3.2.8) .....  | 292 |
| 18.2.12 | Changed attribute for ext element (Part 1, §21.3.2.10) .....     | 292 |
| 18.2.13 | Changed attribute for grpSpPr element (Part 1, §21.3.2.14) ..... | 293 |
| 18.2.14 | Changed attribute for spPr element (Part 1, §21.3.2.23) .....    | 293 |
| 18.2.15 | Changed attribute for xfrm element (Part 1, §21.3.2.28) .....    | 294 |
| 18.2.16 | Changed attribute for rellds element (Part 1, §21.4.2.22) .....  | 294 |
| 18.2.17 | Changed attribute for shape element (Part 1, §21.4.2.27) .....   | 295 |
| 18.2.18 | Changed attribute for spPr element (Part 1, §21.4.3.7) .....     | 296 |
| 18.2.19 | Changed attribute for sp3d element (Part 1, §21.4.5.6) .....     | 296 |

End of informative text.

## 18.1.2 Elements

### 18.1.2.1 legacyDrawingHF (Legacy Drawing for Headers and Footers)

This element specifies the VML Drawing part that contains any pictures used in the header or footer of the chart.

| Parent Elements                     |
|-------------------------------------|
| printSettings (Part 1, §21.2.2.148) |

| Attributes                                              | Description                                                                                                                                                  |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship Reference)                             | Specifies the relationship ID for the relationship for this Chart or Chart Drawing part. The type of relationship needed is specified by the parent element. |
| Namespace:<br>.../officeDocument<br>/2006/relationships | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).                                                 |

[Note: The W3C XML Schema definition of this element's content model (CT\_RelId) is located in §A.5.1. *end note*]

### 18.1.3 Simple Types

#### 18.1.3.1 Additional member types for union in ST\_DepthPercent

The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.

- The ST\_DepthPercentUShort simple type (§13.1.3.2).

#### 18.1.3.2 ST\_DepthPercentUShort (Depth Percent UnsignedShort) (Part 1, §21.2.3.9)

This simple type specifies that its contents contain a whole number between 20 and 2000, whose contents are a percentage. This simple type's contents are a restriction of the W3C XML Schema unsignedShort datatype.

This simple type also specifies the following restrictions:

This simple type has a minimum value of greater than or equal to 20.

This simple type has a maximum value of less than or equal to 2000.

| Referenced By                       |
|-------------------------------------|
| ST_DepthPercent (Part 1, §21.2.3.9) |

#### 18.1.3.3 Additional member types for union in ST\_HPercent (Part 1, §21.2.3.19)

The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.

- The ST\_HPercentUShort simple type (§13.1.3.4).

#### 18.1.3.4 ST\_HPercentUShort (Depth Percent UnsignedShort)

This simple type specifies that its contents contain a whole number between 5 and 500, whose contents are a percentage.

This simple type's contents are a restriction of the W3C XML Schema unsignedShort datatype.

This simple type also specifies the following restrictions:

This simple type has a minimum value of greater than or equal to 5.

This simple type has a maximum value of less than or equal to 500.

| Referenced By                    |
|----------------------------------|
| ST_HPercent (Part 1, §21.2.3.19) |

#### 18.1.3.5 Additional member types for union in ST\_GapAmount (Part 1, §21.2.3.16)

The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.

- The ST\_GapAmountUShort simple type (§13.1.3.6).

#### 18.1.3.6 ST\_GapAmountUShort (Gap Amount UnsignedShort)

This simple type specifies that its contents contain a whole number between 0 and 500, whose contents are a percentage.

This simple type's contents are a restriction of the W3C XML Schema unsignedShort datatype.

This simple type also specifies the following restrictions:

This simple type has a minimum value of greater than or equal to 0.

This simple type has a maximum value of less than or equal to 500.

| Referenced By                     |
|-----------------------------------|
| ST_GapAmount (Part 1, §21.2.3.16) |

#### 18.1.3.7 Additional member types for union in ST\_SecondPieSize (Part 1, §21.2.3.41)

The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.

- The ST\_SecondPieSizeUShort simple type (§13.1.3.10).

#### 18.1.3.8 ST\_SecondPieSizeUShort (Second Pie Size UnsignedShort)

This simple type specifies that its contents contain a whole number between 5 and 200, whose contents are a percentage.

This simple type's contents are a restriction of the W3C XML Schema unsignedShort datatype.

This simple type also specifies the following restrictions:

This simple type has a minimum value of greater than or equal to 5.

This simple type has a maximum value of less than or equal to 200.

| Referenced By                         |
|---------------------------------------|
| ST_SecondPieSize (Part 1, §21.2.3.41) |

#### 18.1.3.9 Additional member types for union in ST\_HoleSize (Part 1, §21.2.3.18)

The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.

- The ST\_HoleSizeUByte simple type (§13.1.3.12).

#### 18.1.3.10 ST\_HoleSizeUByte (Hole Size UnsignedByte)

This simple type specifies that its contents contain a whole number between 10 and 90, whose contents are a percentage.

This simple type's contents are a restriction of the W3C XML Schema unsignedByte datatype.

This simple type also specifies the following restrictions:

This simple type has a minimum value of greater than or equal to 10.

This simple type has a maximum value of less than or equal to 90.

| Referenced By                    |
|----------------------------------|
| ST_HoleSize (Part 1, §21.2.3.18) |

#### 18.1.3.11 Additional member types for union in ST\_LblOffset (Part 1, §21.2.3.23)

The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.

- The ST\_LblOffsetUShort simple type (§13.1.3.14).

#### 18.1.3.12 ST\_LblOffsetUShort (Label Offset UnsignedShort)

This simple type specifies that its contents contain a whole number between 0 and 1000, whose contents are a percentage.

This simple type's contents are a restriction of the W3C XML Schema unsignedShort datatype.

This simple type also specifies the following restrictions:

This simple type has a minimum value of greater than or equal to 0.

This simple type has a maximum value of less than or equal to 1000.

| Referenced By                     |
|-----------------------------------|
| ST_LblOffset (Part 1, §21.2.3.23) |

#### 18.1.3.13 Additional member types for union in ST\_Overlap (Part 1, §21.2.3.31)

The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.

- The ST\_OverlapByte simple type (§13.1.3.16).

#### 18.1.3.14 ST\_OverlapByte (Overlap Byte)

This simple type specifies that its contents contain a whole number between -100 and 100, whose contents are a percentage.

This simple type's contents are a restriction of the W3C XML Schema byte datatype.

This simple type also specifies the following restrictions:

- This simple type has a minimum value of greater than or equal to -100.

This simple type has a maximum value of less than or equal to 100.

| Referenced By                   |
|---------------------------------|
| ST_Overlap (Part 1, §21.2.3.31) |

#### 18.1.3.15 Additional member types for union in ST\_BubbleScale (Part 1, §21.2.3.5)

The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.

- The ST\_BubbleScaleUInt simple type (§13.1.3.18).

#### 18.1.3.16 ST\_BubbleScaleUInt (Bubble Scale UnsignedInt)

This simple type specifies that its contents contain a whole number between 0 and 300, whose contents are a percentage.

This simple type's contents are a restriction of the W3C XML Schema unsignedInt datatype.

This simple type also specifies the following restrictions:

This simple type has a minimum value of greater than or equal to 0.

This simple type has a maximum value of less than or equal to 300.

| Referenced By                      |
|------------------------------------|
| ST_BubbleScale (Part 1, §21.2.3.5) |

#### 18.1.3.17 Additional member types for union in ST\_Thickness (Part 1, §21.2.3.206)

The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.

- The W3C XML Schema unsignedInt datatype.

## 18.2 Changed attributes

The following attributes, which are defined in subclauses within Part 1, §21, "DrawingML - Components Reference Material", have different source relationships when used in documents of the Transitional conformance class:

### 18.2.1 Changed attribute for hlinkClick element (Part 1, §21.1.2.3.5)

| Attributes                           | Description                                                                                                                                                 |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Drawing Object Hyperlink Target) | Specifies the relationship id that when looked up in this slides relationship file contains the target of this hyperlink. This attribute cannot be omitted. |
| Namespace:<br>.../officeDocument     | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).                                                |



| Attributes          | Description |
|---------------------|-------------|
| /2006/relationships |             |

### 18.2.2 Changed attribute for hlinkMouseOver element (Part 1, §21.1.2.3.6)

| Attributes                                              | Description                                                                                                                                                 |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Drawing Object Hyperlink Target)                    | Specifies the relationship id that when looked up in this slides relationship file contains the target of this hyperlink. This attribute cannot be omitted. |
| Namespace:<br>.../officeDocument<br>/2006/relationships | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).                                                |

### 18.2.3 Changed attribute for chart element (Part 1, §21.2.2.26)

| Attributes                                              | Description                                                                                                                                                  |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship Reference)                             | Specifies the relationship ID for the relationship for this Chart or Chart Drawing part. The type of relationship needed is specified by the parent element. |
| Namespace:<br>.../officeDocument<br>/2006/relationships | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).                                                 |

### 18.2.4 Changed attribute for clrMapOvr element (Part 1, §21.2.2.30)

| Attributes                            | Description                                                                                                      |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------|
| accent1 (Accent 1)                    | Specifies a color defined that is associated as the accent 1 color.                                              |
| Namespace:<br>.../drawingml/2006/main | The possible values for this attribute are defined by the ST_ColorSchemeIndex simple type (Part 1, §20.1.10.14). |
| accent2 (Accent 2)                    | Specifies a color defined that is associated as the accent 2 color.                                              |
| Namespace:<br>.../drawingml/2006/main | The possible values for this attribute are defined by the ST_ColorSchemeIndex simple type (Part 1, §20.1.10.14). |
| accent3 (Accent 3)                    | Specifies a color defined that is associated as the accent 3 color.                                              |
| Namespace:<br>.../drawingml/2006/main | The possible values for this attribute are defined by the ST_ColorSchemeIndex simple type (Part 1, §20.1.10.14). |

| Attributes                                                                 | Description                                                                                                                                                                                                 |
|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| accent4 (Accent 4)<br><br>Namespace:<br>.../drawingml/2006/main            | Specifies a color defined that is associated as the accent 4 color.<br><br>The possible values for this attribute are defined by the ST_ColorSchemeIndex simple type (Part 1, §20.1.10.14).                 |
| accent5 (Accent 5)<br><br>Namespace:<br>.../drawingml/2006/main            | Specifies a color defined that is associated as the accent 5 color.<br><br>The possible values for this attribute are defined by the ST_ColorSchemeIndex simple type (Part 1, §20.1.10.14).                 |
| accent6 (Accent 6)<br><br>Namespace:<br>.../drawingml/2006/main            | Specifies a color defined that is associated as the accent 6 color.<br><br>The possible values for this attribute are defined by the ST_ColorSchemeIndex simple type (Part 1, §20.1.10.14).                 |
| bg1 (Background 1)<br><br>Namespace:<br>.../drawingml/2006/main            | A color defined that is associated as the first background color.<br><br>The possible values for this attribute are defined by the ST_ColorSchemeIndex simple type (Part 1, §20.1.10.14).                   |
| bg2 (Background 2)<br><br>Namespace:<br>.../drawingml/2006/main            | Specifies a color defined that is associated as the second background color.<br><br>The possible values for this attribute are defined by the ST_ColorSchemeIndex simple type (Part 1, §20.1.10.14).        |
| folHlink (Followed Hyperlink)<br><br>Namespace:<br>.../drawingml/2006/main | Specifies a color defined that is associated as the color for a followed hyperlink.<br><br>The possible values for this attribute are defined by the ST_ColorSchemeIndex simple type (Part 1, §20.1.10.14). |
| hlink (Hyperlink)<br><br>Namespace:<br>.../drawingml/2006/main             | Specifies a color defined that is associated as the color for a hyperlink.<br><br>The possible values for this attribute are defined by the ST_ColorSchemeIndex simple type (Part 1, §20.1.10.14).          |
| tx1 (Text 1)<br><br>Namespace:<br>.../drawingml/2006/main                  | Specifies a color defined that is associated as the first text color.<br><br>The possible values for this attribute are defined by the ST_ColorSchemeIndex simple type (Part 1, §20.1.10.14).               |

| Attributes                            | Description                                                                                                      |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------|
| tx2 (Text 2)                          | Specifies a color defined that is associated as the second text color.                                           |
| Namespace:<br>.../drawingml/2006/main | The possible values for this attribute are defined by the ST_ColorSchemeIndex simple type (Part 1, §20.1.10.14). |

### 18.2.5 Changed attribute for externalData element (Part 1, §21.2.2.63)

| Attributes                                          | Description                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship Reference)                         | Specifies the relationship ID for the relationship for this chart. The relationship explicitly targeted by this attribute shall be of type <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/package">http://schemas.openxmlformats.org/officeDocument/2006/relationships/package</a> . |
| Namespace:<br>.../officeDocument/2006/relationships | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).                                                                                                                                                                                                       |

### 18.2.6 Changed attribute for spPr element (Part 1, §21.2.2.197)

| Attributes                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| bwMode (Black and White Mode)         | Specifies that the picture should be rendered using only black and white coloring. That is the coloring information for the picture should be converted to either black or white when rendering the picture.                                                                                                                                                                                                                                              |
| Namespace:<br>.../drawingml/2006/main | No gray is to be used in rendering this image, only stark black and stark white.<br><br>[Note: This does not mean that the picture itself that is stored within the file is necessarily a black and white picture. This attribute instead sets the rendering mode that the picture has applied to when rendering. <i>end note</i> ]<br><br>The possible values for this attribute are defined by the ST_BlackWhiteMode simple type (Part 1, §20.1.10.10). |

### 18.2.7 Changed attribute for userShapes element (Part 1, §21.2.2.221)

| Attributes                                          | Description                                                                                                                                                  |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Relationship Reference)                         | Specifies the relationship ID for the relationship for this Chart or Chart Drawing part. The type of relationship needed is specified by the parent element. |
| Namespace:<br>.../officeDocument/2006/relationships | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).                                                 |

### 18.2.8 Changed attribute for blipFill element (Part 1, §21.3.2.2)

| Attributes                                                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| dpi (DPI Setting)<br><br>Namespace:<br>.../drawingml/2006/main                | <p>Specifies the DPI (dots per inch) used to calculate the size of the blip. If not present or zero, the DPI in the blip is used.</p> <p>[<i>Note</i>: This attribute is primarily used to keep track of the picture quality within a document. There are different levels of quality needed for print than on-screen viewing and thus a need to track this information. <i>end note</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema unsignedInt datatype.</p> |
| rotWithShape (Rotate With Shape)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies that the fill should rotate with the shape. That is, when the shape that has been filled with a picture and the containing shape (say a rectangle) is transformed with a rotation then the fill is transformed with the same rotation.</p> <p>The possible values for this attribute are defined by the W3C XML Schema boolean datatype.</p>                                                                                                                                           |

### 18.2.9 Changed attribute for cNvPicPr element (Part 1, §21.3.2.6)

| Attributes                                                                                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| preferRelativeResi ze (Relative Resize Preferred)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies if the user interface should show the resizing of the picture based on the picture's current size or its original size. If this attribute is set to true, then scaling is relative to the original picture size as opposed to the current picture size.</p> <p>[<i>Example</i>: Consider the case where a picture has been resized within a document and is now 50% of the originally inserted picture size. Now if the user chooses to make a later adjustment to the size of this picture within the generating application, then the value of this attribute should be checked.</p> <p>If this attribute is set to true then a value of 50% is shown. Similarly, if this attribute is set to false, then a value of 100% should be shown because the picture has not yet been resized from its current (smaller) size. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema boolean datatype.</p> |

### 18.2.10 Changed attribute for cNvPr element (Part 1, §21.3.2.7)

| Attributes                                                                       | Description                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| descr (Alternative Text for Object)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies alternative text for the current DrawingML object, for use by assistive technologies or applications that do not display the current object.</p> <p>If this element is omitted, then no alternative text is present for the parent object.</p> <p>[<i>Example</i>: Consider a DrawingML object defined as follows:</p> |

| Attributes                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                             | <p>&lt;... descr="A picture of a bowl of fruit"&gt;</p> <p>The descr attribute contains alternative text that can be used in place of the actual DrawingML object. <i>end example</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <p>hidden (Hidden)</p> <p>Namespace:<br/>.../drawingml/2006/main</p>        | <p>Specifies whether this DrawingML object is displayed. When a DrawingML object is displayed within a document, that object can be hidden (i.e., present, but not visible). This attribute determines whether the object is rendered or made hidden. [<i>Note</i>: An application can have settings that allow this object to be viewed. <i>end note</i>]</p> <p>If this attribute is omitted, then the parent DrawingML object shall be displayed (i.e., not hidden).</p> <p>[<i>Example</i>: Consider an inline DrawingML object that must be hidden within the document's content. This setting would be specified as follows:</p> <p>&lt;... hidden="true" /&gt;</p> <p>The hidden attribute has a value of true, which specifies that the DrawingML object is hidden and not displayed when the document is displayed. <i>end example</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema boolean datatype.</p> |
| <p>id (Unique Identifier)</p> <p>Namespace:<br/>.../drawingml/2006/main</p> | <p>Specifies a unique identifier for the current DrawingML object within the current document. This ID can be used to assist in uniquely identifying this object so that it can be referred to by other parts of the document.</p> <p>If multiple objects within the same document share the same id attribute value, then the document shall be considered non-conformant.</p> <p>[<i>Example</i>: Consider a DrawingML object defined as follows:</p> <p>&lt;... id="10" ... &gt;</p> <p>The id attribute has a value of 10, which is the unique identifier for this DrawingML object. <i>end example</i></p> <p>The possible values for this attribute are defined by the ST_DrawingElementId simple type (Part 1, §20.1.10.21).</p>                                                                                                                                                                                                               |
| <p>name (Name)</p> <p>Namespace:</p>                                        | <p>Specifies the name of the object. [<i>Note</i>: Typically, this is used to store the original file name of a picture object. <i>end note</i>]</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| Attributes                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| .../drawingml/2006/main                                    | <p>[<i>Example</i>: Consider a DrawingML object defined as follows:</p> <pre>&lt; ... name="foo.jpg" &gt;</pre> <p>The name attribute has a value of <code>foo.jpg</code>, which is the name of this DrawingML object.<br/><i>end example</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                     |
| title (Title)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies the title (caption) of the current DrawingML object.</p> <p>If this attribute is omitted, then no title text is present for the parent object.</p> <p>[<i>Example</i>: Consider a DrawingML object defined as follows:</p> <pre>&lt;... title="Process Flow Diagram"&gt;</pre> <p><i>end example</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |

### 18.2.11 Changed attribute for cNvSpPr element (Part 1, §21.3.2.8)

| Attributes                                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| txBox (Text Box)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies that the corresponding shape is a text box and thus should be treated as such by the generating application. If this attribute is omitted then it is assumed that the corresponding shape is not specifically a text box.</p> <p>[<i>Note</i>: Because a shape is not specified to be a text box does not mean that it cannot have text attached to it. A text box is merely a specialized shape with specific properties.<br/><i>end note</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema boolean datatype.</p> |

### 18.2.12 Changed attribute for ext element (Part 1, §21.3.2.10)

| Attributes                                                     | Description                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| cx (Extent Width)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies the width of the extents rectangle in EMUs. This rectangle shall dictate the size of the object as displayed (the result of any scaling to the original object).</p> <p>[<i>Example</i>: Consider a DrawingML object specified as follows:</p> <pre>&lt;... cx="1828800" cy="200000"/&gt;</pre> |

| Attributes                                                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                 | <p>The cx attribute specifies that this object has a width of 1828800 EMUs (English Metric Units). <i>end example</i></p> <p>The possible values for this attribute are defined by the ST_PositiveCoordinate simple type (Part 1, §20.1.10.42).</p>                                                                                                                                                                                                                                                                                                                 |
| cy (Extent Height)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies the height of the extents rectangle in EMUs. This rectangle shall dictate the size of the object as displayed (the result of any scaling to the original object).</p> <p>[<i>Example</i>: Consider a DrawingML object specified as follows:</p> <pre>&lt; ... cx="1828800" cy="200000" /&gt;</pre> <p>The cy attribute specifies that this object has a height of 200000 EMUs (English Metric Units). <i>end example</i></p> <p>The possible values for this attribute are defined by the ST_PositiveCoordinate simple type (Part 1, §20.1.10.42).</p> |

### 18.2.13 Changed attribute for grpSpPr element (Part 1, §21.3.2.14)

| Attributes                                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| bwMode (Black and White Mode)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies that the group shape should be rendered using only black and white coloring. That is the coloring information for the group shape should be converted to either black or white when rendering the corresponding shapes.</p> <p>No gray is to be used in rendering this image, only stark black and stark white.</p> <p>[<i>Note</i>: This does not mean that the group shapes themselves are stored with only black and white color information. This attribute instead sets the rendering mode that the shapes use when rendering. <i>end note</i>]</p> <p>The possible values for this attribute are defined by the ST_BlackWhiteMode simple type (Part 1, §20.1.10.10).</p> |

### 18.2.14 Changed attribute for spPr element (Part 1, §21.3.2.23)

| Attributes                                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| bwMode (Black and White Mode)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies that the picture should be rendered using only black and white coloring. That is the coloring information for the picture should be converted to either black or white when rendering the picture.</p> <p>No gray is to be used in rendering this image, only stark black and stark white.</p> <p>[<i>Note</i>: This does not mean that the picture itself that is stored within the file is necessarily a black and white picture. This attribute instead sets the rendering mode that the picture has applied to when rendering. <i>end note</i>]</p> |

| Attributes | Description                                                                                                    |
|------------|----------------------------------------------------------------------------------------------------------------|
|            | The possible values for this attribute are defined by the ST_BlackWhiteMode simple type (Part 1, §20.1.10.10). |

### 18.2.15 Changed attribute for xfrm element (Part 1, §21.3.2.28)

| Attributes                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>flipH (Horizontal Flip)</b><br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies a horizontal flip. When true, this attribute defines that the shape is flipped horizontally about the center of its bounding box.</p> <p>[Example: The following illustrates the effect of a horizontal flip.</p> <div style="display: flex; justify-content: space-around; align-items: center;">  </div> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema boolean datatype.</p> |
| <b>flipV (Vertical Flip)</b><br><br>Namespace:<br>.../drawingml/2006/main   | <p>Specifies a vertical flip. When true, this attribute defines that the group is flipped vertically about the center of its bounding box.</p> <p>[Example: The following illustrates the effect of a vertical flip.</p> <div style="display: flex; justify-content: space-around; align-items: center;">  </div> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema boolean datatype.</p>     |
| <b>rot (Rotation)</b><br><br>Namespace:<br>.../drawingml/2006/main          | <p>Specifies the rotation of the Graphic Frame. The units for which this attribute is specified in reside within the simple type definition referenced below.</p> <p>The possible values for this attribute are defined by the ST_Angle simple type (Part 1, §20.1.10.3).</p>                                                                                                                                                                                                                                                          |

### 18.2.16 Changed attribute for relIds element (Part 1, §21.4.2.22)

| Attributes                          | Description                                                                                                  |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>cs (Explicit Relationship to</b> | Specifies the relationship ID for the explicit relationship to the Diagram Colors part used by this diagram. |



| Attributes                                                                                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Diagram Colors Part)<br><br>Namespace:<br>.../officeDocument/2006/relationships                                         | This relationship shall be of type <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/diagramColors">http://schemas.openxmlformats.org/officeDocument/2006/relationships/diagramColors</a> or the document shall be considered non-conformant.<br><br>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).                                                                                                                                |
| dm (Explicit Relationship to Diagram Data Part)<br><br>Namespace:<br>.../officeDocument/2006/relationships              | Specifies the relationship ID for the explicit relationship to the Diagram Data part used by this diagram.<br><br>This relationship shall be of type <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/diagramData">http://schemas.openxmlformats.org/officeDocument/2006/relationships/diagramData</a> or the document shall be considered non-conformant.<br><br>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).                  |
| lo (Explicit Relationship to Diagram Layout Definition Part)<br><br>Namespace:<br>.../officeDocument/2006/relationships | Specifies the relationship ID for the explicit relationship to the Diagram Layout Definition part used by this diagram.<br><br>This relationship shall be of type <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/diagramLayout">http://schemas.openxmlformats.org/officeDocument/2006/relationships/diagramLayout</a> or the document shall be considered non-conformant.<br><br>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1). |
| qs (Explicit Relationship to Style Definition Part)<br><br>Namespace:<br>.../officeDocument/2006/relationships          | Specifies the relationship ID for the explicit relationship to the Diagram Style part used by this diagram.<br><br>This relationship shall be of type <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/diagramQuickStyle">http://schemas.openxmlformats.org/officeDocument/2006/relationships/diagramQuickStyle</a> or the document shall be considered non-conformant.<br><br>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).     |

### 18.2.17 Changed attribute for shape element (Part 1, §21.4.2.27)

| Attributes                                                                                   | Description                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| blip (Relationship to Image Part)<br><br>Namespace:<br>.../officeDocument/2006/relationships | Specifies the relationship ID of the explicit relationship to an image that shall be used as the image for the contents of this shape.<br><br>This relationship shall be of type <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/image">http://schemas.openxmlformats.org/officeDocument/2006/relationships/image</a> or the document shall be considered non-conformant. |

| Attributes | Description                                                                                                  |
|------------|--------------------------------------------------------------------------------------------------------------|
|            | The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1). |

### 18.2.18 Changed attribute for spPr element (Part 1, §21.4.3.7)

| Attributes                                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| bwMode (Black and White Mode)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Specifies that the picture should be rendered using only black and white coloring. That is the coloring information for the picture should be converted to either black or white when rendering the picture.</p> <p>No gray is to be used in rendering this image, only stark black and stark white.</p> <p>[<i>Note:</i> This does not mean that the picture itself that is stored within the file is necessarily a black and white picture. This attribute instead sets the rendering mode that the picture has applied to when rendering. <i>end note</i>]</p> <p>The possible values for this attribute are defined by the ST_BlackWhiteMode simple type (Part 1, §20.1.10.10).</p> |

### 18.2.19 Changed attribute for sp3d element (Part 1, §21.4.5.6)

| Attributes                                                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| contourW (Contour Width)<br><br>Namespace:<br>.../drawingml/2006/main | <p>Defines the width of the contour on the shape.</p> <p>[<i>Example:</i> Consider the following example of a contourW in use within the sp3d element:</p> <pre>&lt;a:sp3d extrusionH="165100" contourW="50800"   prstMaterial="plastic"&gt;   &lt;a:bevelT w="254000" h="254000"/&gt;   &lt;a:bevelB w="254000" h="254000"/&gt;   &lt;a:extrusionClr&gt;     &lt;a:srgbClr val="FF0000"/&gt;   &lt;/a:extrusionClr&gt;   &lt;a:contourClr&gt;     &lt;a:schemeClr val="accent3"/&gt;   &lt;/a:contourClr&gt; &lt;/a:sp3d&gt;</pre> <p>In this example, we see a countourW defined as 50800. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_PositiveCoordinate simple type (Part 1, §20.1.10.42).</p> |

| Attributes                                                                                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>extrusionH<br/>(Extrusion Height)</p> <p>Namespace:<br/>.../drawingml/2006/main</p>       | <p>Defines the height of the extrusion applied to the shape.</p> <p>[Example: Consider the following example of an extrusionH in use within the sp3d element:</p> <pre> &lt;a:sp3d extrusionH="165100" contourW="50800" prstMaterial="plastic"&gt;   &lt;a:bevelT w="254000" h="254000"/&gt;   &lt;a:bevelB w="254000" h="254000"/&gt;   &lt;a:extrusionClr&gt;     &lt;a:srgbClr val="FF0000"/&gt;   &lt;/a:extrusionClr&gt;   &lt;a:contourClr&gt;     &lt;a:schemeClr val="accent3"/&gt;   &lt;/a:contourClr&gt; &lt;/a:sp3d&gt; </pre> <p>In this example, we see a extrusionH defined as 165100. end example]</p> <p>The possible values for this attribute are defined by the ST_PositiveCoordinate simple type (Part 1, §20.1.10.42).</p>                                                                 |
| <p>prstMaterial<br/>(Preset Material Type)</p> <p>Namespace:<br/>.../drawingml/2006/main</p> | <p>Defines the preset material that is combined with the lighting properties to give the final look and feel of a shape.</p> <p>[Example: Consider the following example of a prstMaterial in use within the sp3d element:</p> <pre> &lt;a:sp3d extrusionH="165100" contourW="50800" prstMaterial="plastic"&gt;   &lt;a:bevelT w="254000" h="254000"/&gt;   &lt;a:bevelB w="254000" h="254000"/&gt;   &lt;a:extrusionClr&gt;     &lt;a:srgbClr val="FF0000"/&gt;   &lt;/a:extrusionClr&gt;   &lt;a:contourClr&gt;     &lt;a:schemeClr val="accent3"/&gt;   &lt;/a:contourClr&gt; &lt;/a:sp3d&gt; </pre> <p>In this example, we see a prstMaterial defined as plastic. end example]</p> <p>The possible values for this attribute are defined by the ST_PresetMaterialType simple type (Part 1, §20.1.10.50).</p> |

| Attributes                                                   | Description                                                                                                                                                  |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| z (Shape Depth)<br><br>Namespace:<br>.../drawingml/2006/main | Defines the z coordinate for the 3D shape.<br><br>The possible values for this attribute are defined by the ST_Coordinate simple type (Part 1, §20.1.10.16). |

STANDARDSISO.COM : Click to view the full PDF of ISO/IEC 29500-4:2011

# 19. VML Reference Material

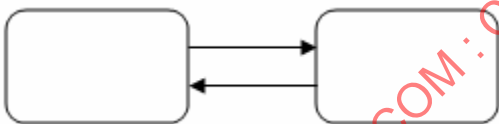
[No documentation has been entered for this section heading.]

## 19.1 VML

VML is a language for defining graphical objects in cases where DrawingML does not apply, such as text boxes and shapes in WordprocessingML documents and comments and controls in SpreadsheetML documents. The urn:schemas-microsoft-com:vml namespace provides the base elements and attributes for defining shape primitives. The urn:schemas-microsoft-com:office:office, urn:schemas-microsoft-com:office:word, urn:schemas-microsoft-com:office:excel and urn:schemas-microsoft-com:office:powerpoint namespaces define elements that layer on information beyond the baseline graphical definition. To maintain backward compatibility, all VML namespaces defined in ISO/IEC 29500 maintain the legacy namespace structure used by the existing corpus of binary documents.

[*Note:* The VML format is a legacy format used in an existing corpus of binary documents and is included and fully defined in ISO/IEC 29500 for backwards compatibility reasons. The DrawingML format is a newer and richer format created with the goal of eventually replacing any uses of VML in the Office Open XML formats. VML should be considered a transitional format included in Office Open XML for legacy reasons only and new applications that need a file format for drawings are strongly encouraged to use preferentially DrawingML .end note]

[*Example:* Assume the following shapes exist in a WordprocessingML document:



The drawing consists of four shapes. The arrows are specified by extending the shape type base definition in the shapetype element. Each shape representing an arrow references the shapetype it is extending via its type attribute.

```
<v:shapetype id="_x0000_t32" coordsize="21600,21600" o:spt="32" o:oned="t"
  path="m,l21600,21600e" filled="f">
  <v:path arrowok="t" fillok="f" o:connecttype="none"/>
  <o:lock v:ext="edit" shapetype="t"/>
</v:shapetype>
```

```
<v:shape id="_x0000_s1030" type="#_x0000_t32" style="position:absolute;left:0;
  text-align:left;margin-left:105pt;margin-top:36pt;width:48pt;height:0;flip:x;
  z-index:251661312" o:connectortype="straight">
```

```
<v:stroke endarrow="block"/>
</v:shape>

<v:shape id="_x0000_s1029" type="#_x0000_t32" style="position:absolute;left:0;
text-align:left;margin-left:105pt;margin-top:21.75pt;width:48pt;height:0;
z-index:251660288" o:connectortype="straight">
  <v:stroke endarrow="block"/>
</v:shape>
```

The rounded rectangles use the VML roundrect element.

```
<v:roundrect id="_x0000_s1028" style="position:absolute;left:0;
text-align:left;margin-left:153pt;margin-top:8.25pt;width:68.25pt;height:42pt;
z-index:251659264" arcsize="10923f"/>

<v:roundrect id="_x0000_s1027" style="position:absolute;left:0;
text-align:left;margin-left:36.75pt;margin-top:8.25pt;width:68.25pt;
height:42pt;z-index:251658240" arcsize="10923f"/>
```

*end example]*

Throughout VML, numeric values that are allowed to take units can be specified in: cm (centimeters), mm (millimeters), in (inches), pt (points), pc (picas), px (pixels).

### 19.1.1 Table of Contents

This subclause is informative.

|               |                                  |            |
|---------------|----------------------------------|------------|
| <b>19.1.2</b> | <b>Elements</b>                  | <b>301</b> |
| 19.1.2.1      | arc (Arc Segment)                | 301        |
| 19.1.2.2      | background (Document Background) | 329        |
| 19.1.2.3      | curve (Bezier Curve)             | 332        |
| 19.1.2.4      | f (Single Formula)               | 360        |
| 19.1.2.5      | fill (Shape Fill Properties)     | 364        |
| 19.1.2.6      | formulas (Set of Formulas)       | 376        |
| 19.1.2.7      | group (Shape Group)              | 376        |
| 19.1.2.8      | h (Shape Handle)                 | 400        |
| 19.1.2.9      | handles (Set of Handles)         | 404        |
| 19.1.2.10     | image (Image File)               | 404        |
| 19.1.2.11     | imagedata (Image Data)           | 435        |
| 19.1.2.12     | line (Line)                      | 443        |
| 19.1.2.13     | oval (Oval)                      | 471        |
| 19.1.2.14     | path (Shape Path)                | 497        |
| 19.1.2.15     | polyline (Multiple Path Line)    | 506        |
| 19.1.2.16     | rect (Rectangle)                 | 533        |
| 19.1.2.17     | roundrect (Rounded Rectangle)    | 560        |
| 19.1.2.18     | shadow (Shadow Effect)           | 587        |

|               |                                                      |            |
|---------------|------------------------------------------------------|------------|
| 19.1.2.19     | shape (Shape Definition) .....                       | 593        |
| 19.1.2.20     | shapetype (Shape Template) .....                     | 623        |
| 19.1.2.21     | stroke (Line Stroke Settings) .....                  | 651        |
| 19.1.2.22     | textbox (Text Box) .....                             | 664        |
| 19.1.2.23     | textpath (Text Layout Path) .....                    | 676        |
| <b>19.1.3</b> | <b>Simple Types .....</b>                            | <b>689</b> |
| 19.1.3.1      | ST_EditAs (Shape Grouping Types) .....               | 689        |
| 19.1.3.2      | ST_Ext (VML Extension Handling Behaviors) .....      | 689        |
| 19.1.3.3      | ST_FillMethod (Gradient Fill Computation Type) ..... | 690        |
| 19.1.3.4      | ST_FillType (Shape Fill Type) .....                  | 691        |
| 19.1.3.5      | ST_ImageAspect (Image Scaling Behavior) .....        | 692        |
| 19.1.3.6      | ST_ShadowType (Shadow Type) .....                    | 692        |
| 19.1.3.7      | ST_StrokeArrowLength (Stroke Arrowhead Length) ..... | 693        |
| 19.1.3.8      | ST_StrokeArrowType (Stroke Arrowhead Type) .....     | 693        |
| 19.1.3.9      | ST_StrokeArrowWidth (Stroke Arrowhead Width) .....   | 694        |
| 19.1.3.10     | ST_StrokeEndCap (Stroke End Cap Type) .....          | 695        |
| 19.1.3.11     | ST_StrokeJoinStyle (Line Join Type) .....            | 695        |
| 19.1.3.12     | ST_StrokeLineStyle (Stroke Line Style) .....         | 696        |

**End of informative text.**

## 19.1.2 Elements

The following elements comprise the contents of the `urn:schemas-microsoft-com:vml` namespace:

[*Note:* As the VML format is a format provided for backward compatibility, many VML elements are defined in the same `urn:schemas-microsoft-com:vml` namespace that is already used by millions of documents already using VML. *end note*]

### 19.1.2.1 arc (Arc Segment)

This element specifies an arc defined as a segment of an oval. The CSS2 style content width and height define the width and height of that oval. The arc is defined by the intersection of the oval with the start and end radius vectors given by the angles. The angles are calculated on the basis of a circle (width equal to height) which is then scaled anisotropically to the desired width and height.

[*Example:* The following specifies a simple half-circle arc open at the top:

```
<v:arc
  style="position:relative;top:120;left:20;width:200;height:200"
  startangle="90" endangle="270">
</v:arc>
```

The shape looks like this:



*end example]*

| Parent Elements                                                                                                |
|----------------------------------------------------------------------------------------------------------------|
| background (Part 1, §17.2.1); group (§19.1.2.7); object (Part 1, §17.3.3.19); pict (§14.2.2.2); pict (§14.5.1) |

| Child Elements                         | Subclause  |
|----------------------------------------|------------|
| anchorlock (Anchor Location Is Locked) | §19.3.2.1  |
| borderbottom (Bottom Border)           | §19.3.2.2  |
| borderleft (Left Border)               | §19.3.2.3  |
| borderright (Right Border)             | §19.3.2.4  |
| bordertop (Top Border)                 | §19.3.2.5  |
| callout (Callout)                      | §19.2.2.2  |
| ClientData (Attached Object Data)      | §19.4.2.12 |
| clippath (Shape Clipping Path)         | §19.2.2.3  |
| extrusion (3D Extrusion)               | §19.2.2.11 |
| fill (Shape Fill Properties)           | §19.1.2.5  |
| formulas (Set of Formulas)             | §19.1.2.6  |
| handles (Set of Handles)               | §19.1.2.9  |
| imagedata (Image Data)                 | §19.1.2.11 |
| lock (Shape Protections)               | §19.2.2.18 |
| path (Shape Path)                      | §19.1.2.14 |
| shadow (Shadow Effect)                 | §19.1.2.18 |
| signatureline (Digital Signature Line) | §19.2.2.30 |
| skew (Skew Transform)                  | §19.2.2.31 |
| stroke (Line Stroke Settings)          | §19.1.2.21 |
| textbox (Text Box)                     | §19.1.2.22 |
| textdata (VML Diagram Text)            | §19.5.2.2  |
| textpath (Text Layout Path)            | §19.1.2.23 |
| wrap (Text Wrapping)                   | §19.3.2.6  |



| Attributes                                                                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>allowincell (Allow in Table Cell)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>  | <p>Specifies whether a shape can be placed in a table. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:allowincell="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                       |
| <p>allowoverlap (Allow Shape Overlap)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether a shape can overlap another shape. Default is true. If false, the shape shifts left or right so as not to overlap another shape, similar to the behavior of the HTML float attribute.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:allowoverlap="false" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                   |
| <p>alt (Alternate Text)</p>                                                                             | <p>Specifies alternative text describing the graphical object. This text should provide a brief description of the shape for use by accessibility tools. Default is no value.</p> <p>[Example: The alt text describes the basic shape:</p> <pre>&lt;v:shape ... fillcolor="red" alt="Red rectangle"&gt; &lt;/v:shape&gt;</pre> <p>The alt text describes the contents of a shape displaying an image:</p> <pre>&lt;v:shape ... alt="Picture of a sunset"&gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <p>borderbottomcolor (Bottom Border Color)</p>                                                          | <p>Specifies the bottom border color of an inline shape. Default is no value.</p> <p>[Example:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

| Attributes                                                                                                   | Description                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Namespace:<br>urn:schemas-microsoft-com:office:office                                                        | <pre>&lt;v:shape ... o:borderbottomcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                  |
| <b>borderleftcolor</b><br>(Border Left Color)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office   | <p>Specifies the left border color of an inline shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:borderleftcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>   |
| <b>borderrightcolor</b><br>(Border Right Color)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies the right border color of an inline shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:borderrightcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <b>bordertopcolor</b><br>(Border Top Color)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office     | <p>Specifies the top border color of an inline shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:bordertopcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>     |
| <b>bullet</b> (Graphical Bullet)<br><br>Namespace:                                                           | <p>Specifies whether the shape is a graphical bullet. Default is false.</p> <p>[Example:</p>                                                                                                                                                                                                                |

| Attributes                                                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| urn:schemas-microsoft-com:office:office                                                             | <pre>&lt;v:shape ... o:bullet="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| button (Button Behavior Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office        | <p>Specifies whether a shape exhibits button press behavior on click. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:button="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| bwmode (Black-and-White Mode)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office          | <p>Specifies how a shape renders for black-and-white output devices. When a shape is printed on a black-and-white printer or displayed in a black-and-white view in an application, several options are possible. Default is auto, which uses o:bwnormal for normal black-and-white rendering and o:bwpure for pure black-and-white rendering.</p> <p>bwnormal and bwpure are subordinate to bwmode. If bwmode is "auto" then the value for bwnormal or bwpure is used depending on what the output format is. An application can define for itself what, if any, difference there is between normal B&amp;W and pure B&amp;W. [Example: Normal B&amp;W might allow greyscale and pure B&amp;W might not. <i>end example]</i></p> <p>[Example: This shape renders in grayscale in a black-and-white environment:</p> <pre>&lt;v:shape ... o:bwmode="grayscale" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3).</p> |
| bwnormal (Normal Black-and-White Mode)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies the black-and-white mode for normal black-and-white output devices. Default is auto.</p> <p>[Example: This shape renders in a pale grayscale in a normal black-and-white environment:</p> <pre>&lt;v:shape ... o:bwmode="auto" o:bwnormal="lightgrayscale" ... &gt; &lt;/v:shape&gt;</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

| Attributes                                                                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                         | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3).</p>                                                                                                                                                                                                                                                                                                          |
| <p>bwpure (Pure Black-and-White Mode)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies the black-and-white mode for pure black-and-white output devices. Default is auto.</p> <p>[<i>Example:</i> This shape renders in high contrast when in a pure black-and-white environment:</p> <pre>&lt;v:shape ... o:bwmode="auto" o:bwpure="highcontrast" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3).</p> |
| <p>chromakey (Image Transparency Color)</p>                                                             | <p>Specifies a color value that is transparent and show anything behind the shape. Default is no value.</p> <p>[<i>Example:</i></p> <pre>&lt;v:image ... chromakey="white" ...&gt; &lt;/v:image&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p>                                                                                             |
| <p>class (CSS Reference)</p>                                                                            | <p>Specifies a reference to the definition of a CSS style. Default is no value.</p> <p>[<i>Example:</i> The snippets below are equivalent:</p> <pre>... .narrowstyle {width:50;height:100} ... &lt;v:shape ... class="narrowstyle"   style="top:1;left:1"&gt; &lt;/v:shape&gt;</pre> <pre>&lt;v:shape ... style="top:1;left:1;   width:50;height:100"&gt; &lt;/v:shape&gt;</pre>                                                        |

| Attributes                                                                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                            | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                |
| <p>clip (Clipping Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>                | <p>Specifies that the clipping region is active. This is used in conjunction with the clippath (§19.2.2.3) element to create a clipping region.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:clip="true"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                       |
| <p>cliptowrap (Clip to Wrapping Polygon)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies that the clipping region for the shape aligns with the wrapping polygon that tightly surrounds the entire shape (essentially, that the shape shall not be drawn beyond its wrapping polygon's extents – if it does, the shape shall be clipped). Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:cliptowrap="true"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <p>connectortype (Shape Connector Type)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>  | <p>Specifies the kind of connector used for joining shapes. Default is straight.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:connectortype="elbow" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ConnectorType simple type (§19.2.3.7).</p>                                                                                                                                                                                   |
| <p>coordorigin (Coordinate Space Origin)</p>                                                               | <p>Specifies the coordinate of the top left corner of the shape's coordinate space. This determines the position of the (0,0) coordinate space origin within the shape's bounding box. Default is "0,0", which places the (0,0) origin at the top left corner of the bounding box.</p>                                                                                                                                                                                                                     |

| Attributes                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                             | <p>This affects shape properties that specify coordinate positions, such as the path attribute. Thus a path can be defined against a generic (0,0) origin and the coordorigin value translates the entire path within the shape's bounding space.</p> <p>[Example: The horizontal and vertical coordinate space ranges from -100 to +100 because the coordinate space (coordsize) is 200 by 200 and the top left coordinate is (-100,-100). The (0,0) origin lies at the center of the shape's bounding box, as evidenced by the position of the shape's path within the coordinate space:</p> <pre>&lt;v:shape ... coordsize="200,200"   coordorigin="-100,-100"   path="m 0,0 l 0,50, 50,50, 50,0 x e"&gt; &lt;/v:shape&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <b>coordsize</b><br>(Coordinate Space Size) | <p>Specifies the size of the shape's coordinate space in coordinate units. Default is "1000,1000".</p> <p>The physical size of a coordinate unit length is determined by both the size of the coordinate space (coordsize) and the size of the shape (style width and height). The coordsize attribute defines the number of horizontal and vertical subdivisions into which the shape's bounding box is divided. The combination of coordsize and style width/height effective scales the shape anisotropically.</p> <p>[Example: The path is 50 units wide and tall, which is 25% of the size of the coordinate space:</p> <pre>&lt;v:shape ... coordsize="200,200"   coordorigin="-100,-100"   path="m 0,0 l 0,50, 50,50, 50,0 x e"&gt; &lt;/v:shape&gt;</pre>  <p>end example]</p>                                                                  |

| Attributes                                                                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                             | The possible values for this attribute are defined by the W3C XML Schema string datatype.                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>dgmlayout</b><br>(Diagram Node Layout Identifier)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office           | Specifies the kind of automatic layout to apply to the diagram node. This is only meaningful if the shape is a node in an organization chart, which is denoted by the orgchart value of the editas attribute of the group element.<br><i>[Example:</i><br><pre>&lt;v:shape ... dgmlayout="1"&gt; &lt;/v:shape&gt;</pre> <i>end example]</i><br><br>The possible values for this attribute are defined by the ST_DiagramLayout simple type (§19.2.3.10).                                     |
| <b>dgmlayoutmru</b><br>(Diagram Node Recent Layout Identifier)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | Specifies the kind of automatic layout most recently used on the child elements of the diagram node. This is only meaningful if the shape is a node in an organization chart, which is denoted by the orgchart value of the editas attribute of the group element.<br><br><i>[Example:</i><br><pre>&lt;v:shape ... dgmlayout="1"&gt; &lt;/v:shape&gt;</pre> <i>end example]</i><br><br>The possible values for this attribute are defined by the ST_DiagramLayout simple type (§19.2.3.10). |
| <b>dgmnodekind</b><br>(Diagram Node Identifier)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office                | Specifies an optional, application-defined parameter that is intended to be used by the application to tag different types of nodes in a diagram.<br><br><i>[Example:</i><br><pre>&lt;v:shape ... dgmnodekind="1"&gt; &lt;/v:shape&gt;</pre> <i>end example]</i><br><br>The possible values for this attribute are defined by the W3C XML Schema integer datatype.                                                                                                                          |
| <b>doubleclicknotify</b><br>(Double-click Notification Toggle)<br><br>Namespace:                                            | Specifies that an event message is sent when a shape is double-clicked. Default is false.<br><br><i>[Example:</i><br><pre>&lt;v:shape ... o:doubleclicknotify="true" ... &gt;</pre>                                                                                                                                                                                                                                                                                                         |

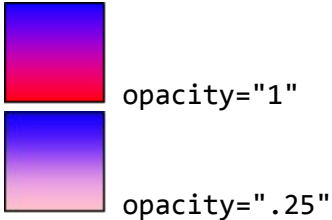
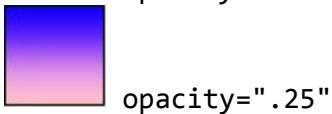
| Attributes                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| urn:schemas-microsoft-com:office:office | <p><code>&lt;/v:shape&gt;</code></p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| endAngle (Ending Angle)                 | <p>Specifies the angle that defines the endpoint of the arc. The angle is measured in degrees clockwise from the vertical. Default is 90.</p> <p>[Example: This arc ends at the bottom center of the shape's region:</p> <pre>&lt;v:arc ... endangle="180" ... &gt; &lt;/v:arc&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema decimal datatype.</p>                                                                                                                                                                                                                                                                                                                                             |
| fillcolor (Fill Color)                  | <p>Specifies the color to use for the fill. Default is white. If the fill element (§19.1.2.5) is present, its color attribute takes precedence. Colors are typically specified as either a named color, such as red, or six hexadecimal digits representing the red, green and blue values of the color, such as #00FF30. Full details are specified in the simple type description.</p> <p>[Example: This shape is red if its fill is visible:</p> <pre>&lt;v:shape ... fillcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p>This is equivalent to:</p> <pre>&lt;v:shape ... fillcolor="#ff0000" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p> |
| filled (Shape Fill Toggle)              | <p>Specifies whether the closed path is filled. Default is true. This attribute is overridden by the fill on attribute.</p> <p>[Example:</p> <pre>&lt;v:shape ... filled="f" fillcolor="red" ...&gt;</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |



| Attributes                                                                                                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                 | <p><code>&lt;/v:shape&gt;</code></p>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                            |
| <p><b>forcedash</b> (Force Dashed Outline)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>    | <p>Specifies whether a dashed outline is used to draw a shape when a shape has no line or fill. Default is false.</p> <p>Used by PresentationML placeholders to draw a dashed outline when there is no line and no fill for a shape.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:forcedash="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <p><b>hr</b> (Horizontal Rule Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>         | <p>Specifies that a shape is a horizontal rule. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hr="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                           |
| <p><b>hralign</b> (Horizontal Rule Alignment)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies the alignment of a horizontal rule. Default is left.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hralign="center" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p>                                                                                                                                                                                                                                                                           |

| Attributes                                                                                                          | Description                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                     | The possible values for this attribute are defined by the ST_HrAlign simple type (§19.2.3.16).                                                                                                                                                                                                                                       |
| <b>href (Hyperlink Target)</b><br><br>Namespace:<br>urn:schemas-microsoft-com:office:office                         | Specifies a hyperlink URL target for the shape. Default is no value.<br><br><i>[Example:</i><br><br><pre>&lt;v:shape ... href="http://www.openxmlformats.org" ... &gt; &lt;/v:shape&gt;</pre> <i>end example]</i><br><br>The possible values for this attribute are defined by the W3C XML Schema string datatype.                   |
| <b>hrnoshade (Horizontal Rule 3D Shading Toggle)</b><br><br>Namespace:<br>urn:schemas-microsoft-com:office:office   | Specifies that the horizontal rule does not have 3-D shading. Default is false.<br><br><i>[Example:</i><br><br><pre>&lt;v:shape ... o:hrnoshade="true" ... &gt; &lt;/v:shape&gt;</pre> <i>end example]</i><br><br>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).                    |
| <b>hrpct (Horizontal Rule Length Percentage)</b><br><br>Namespace:<br>urn:schemas-microsoft-com:office:office       | Specifies the length of a horizontal rule as a percentage of page width. Default is 0.<br><br><i>[Example:</i><br><br><pre>&lt;v:shape ... o:hrpct="85" ... &gt; &lt;/v:shape&gt;</pre> <i>end example]</i><br><br>The possible values for this attribute are defined by the W3C XML Schema float datatype.                          |
| <b>hrstd (Horizontal Rule Standard Display Toggle)</b><br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | Specifies whether a shape is displayed as a standard horizontal rule. Only applies if hr is true. Default is false.<br><br><i>[Example:</i><br><br><pre>&lt;v:shape ... o:hrstd="true" ... &gt; &lt;/v:shape&gt;</pre> <i>end example]</i><br><br>The possible values for this attribute are defined by the ST_TrueFalse simple type |

| Attributes                                                                               | Description                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                          | (§20.1.2.5).                                                                                                                                                                                                                                                                                                                                                                                                                  |
| id (Unique Identifier)                                                                   | <p>Specifies a unique identifier that can be used to reference a VML object.</p> <p>Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... id="myShape" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                          |
| insetmode (Text Inset Mode)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies whether the application calculates the internal text margin instead of using the inset attribute. Default is custom. This attribute is only meaningful for text boxes.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:insetmode="auto" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_InsetMode simple type (§19.2.3.17).</p>                  |
| insetpen (Inset Border From Path)                                                        | <p>Specifies that the border shall be displayed inside of the path defining the shape, rather than along the path (the default border placement), or outside of the path as might be done with an image.</p> <p>[Example:</p> <pre>&lt;v:shape ... insetpen="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| ole (Embedded Object Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-                 | <p>Specifies whether the shape is an embedded object. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:ole="true" ... &gt; &lt;/v:shape&gt;</pre>                                                                                                                                                                                                                                                                |

| Attributes                                                                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| com:office:office                                                                                          | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalseBlank simple type (§20.1.2.6).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <p>oleicon (Embedded Object Icon Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether an embedded object is displayed as an icon. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:oleicon="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                            |
| <p>oned (Shape Handle Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>            | <p>Specifies whether the extra handles of a shape are hidden. If true, hides all shape handles except the top left and bottom right; that is, the same handles that are used for a straight line segment. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:oned="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                      |
| opacity (Fill Color Opacity)                                                                               | <p>Specifies the opacity of the primary fill color. Default is 1.0. This numeric value can also be specified in 1/65536-ths if a trailing "f" is supplied. [Example: A value of "52429f" represents 52429/65536 or 0.8. <i>end example]</i></p> <p>[Example: The red color is 25% opaque:</p> <pre>&lt;v:fill type="gradient" color="red" color2="blue" opacity=".25"&gt; &lt;/v:fill&gt;</pre> <div data-bbox="451 1661 781 1879">  <p>opacity="1"</p>  <p>opacity=".25"</p> </div> |

| Attributes                                                                                                       | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                  | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                   |
| <p>preferrelative<br/>(Relative Resize Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether the original size of an object is saved after reformatting. Default is false. If true, the original size of the object is stored and all resizing is based on a percentage of that original size. Otherwise, each resizing resets the scale to 100%.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:preferrelative="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <p>print (Print Toggle)</p>                                                                                      | <p>Specifies whether the shape is printed. Default is true.</p> <p>[Example:</p> <pre>&lt;v:shape ... print="false" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                         |
| <p>regroupid (Regroup ID)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>                      | <p>Specifies a previous group for a shape. An ID number is used to identify groups of shapes that are no longer grouped. This allows shapes to be regrouped programmatically.</p> <p>[Example: The shape was part of a group identified by the ID 040754:</p> <pre>&lt;v:shape ... o:regroupid="040754" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema integer datatype.</p>                                          |
| <p>spid (Optional String)</p> <p>Namespace:</p>                                                                  | <p>Specifies an optional string that an application can use to identify the particular shape. Default is no value.</p>                                                                                                                                                                                                                                                                                                                                                                                        |

| Attributes                                                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| urn:schemas-microsoft-com:office:office                                            | The possible values for this attribute are defined by the W3C XML Schema string datatype.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| spt (Optional Number)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | Specifies an optional number that an application can use to associate the particular shape with a defined shape type. Default is 0.<br><br>The possible values for this attribute are defined by the W3C XML Schema float datatype.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| startAngle (Starting Angle)                                                        | Specifies an angle that defines the starting point of the arc. The angle is measured in degrees clockwise from the vertical.<br><br>Default is 0.<br><br><i>[Example: This arc begins in the upper-right quadrant:</i><br><br><pre>&lt;v:arc ... startangle="45" ... &gt; &lt;/v:arc&gt;</pre> <i>end example]</i><br><br>The possible values for this attribute are defined by the W3C XML Schema decimal datatype.                                                                                                                                                                                                                                                                                                                  |
| strokecolor (Shape Stroke Color)                                                   | Specifies the primary color of the brush to use to stroke the path of the shape. Default is black. The color attribute of the stroke element (§19.1.2.21) overrides this. Colors are typically specified as either a named color, such as red, or six hexadecimal digits representing the red, green and blue values of the color, such as #00FF30. Full details are specified in the simple type description.<br><br><i>[Example:</i><br><br><pre>&lt;v:shape ... strokecolor="red" ...&gt; &lt;/v:shape&gt;</pre> <br><i>end example]</i><br><br>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3). |
| stroked (Shape Stroke Toggle)                                                      | Specifies whether the path defining the shape is stroked with a solid line. The stroke element (§19.1.2.21) defines other strokes. The on attribute of the stroke element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| Attributes                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                               | <p>overrides this attribute. Default is true.</p> <p>[Example:</p> <pre>&lt;v:shape ... fillcolor="red"   stroked="false" strokecolor="blue"...&gt; &lt;/v:shape&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                |
| <p>strokeweight<br/>(Shape Stroke Weight)</p> | <p>Specifies the width of the brush to use to stroke the path. Default is 1 point. If a number is given without units, the emu is used. The weight attribute of the stroke element (§19.1.2.21) overrides this attribute.</p> <p>[Example:</p> <pre>&lt;v:shape ... strokeweight="3pt" ... &gt; &lt;/v:shape&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                        |
| <p>style (Shape Styling Properties)</p>       | <p>Specifies the CSS2 styling properties of the shape. The CSS2 (Cascading Style Sheets, Level 2) specification, a Recommendation of the World Wide Web Consortium, is available here: <a href="http://www.w3.org/TR/REC-CSS2">http://www.w3.org/TR/REC-CSS2</a>.</p> <p>This attribute uses a semi-colon delimited list of “name:value” pairs, the syntax defined by section 4.1.8 of the CSS2 specification for grouped declarations (without the surrounding braces). The following tables define the allowed properties and the VML treatment of each.</p> <p>[Example:</p> <pre>&lt;v:shape ... style='position:absolute;width:100pt;height:50pt' ... &gt; &lt;/v:shape&gt;</pre> |

| Attributes    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |      |                                                                                                                                                                                                                                                                                                                                                                                       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|               | <i>end example]</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |      |                                                                                                                                                                                                                                                                                                                                                                                       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |
|               | <table><tr><th>Property</th><th>Description</th></tr><tr><td>flip</td><td><p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p><ul style="list-style-type: none"><li>• x - Flip along the y-axis, reversing the x-coordinates.</li><li>• y - Flip along the x-axis, reversing the y-coordinates.</li><li>• xy - Flip along both the y- and x-axis.</li><li>• yx - Flip along both the x- and y-axis.</li></ul></td></tr><tr><td>height</td><td><p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p><ul style="list-style-type: none"><li>• auto - Default position of an element in the flow of the page.</li><li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li><li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li></ul></td></tr><tr><td>left</td><td><p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p><ul style="list-style-type: none"><li>• auto - Default position of an element in the flow of the page.</li><li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li><li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li></ul></td></tr><tr><td>margin-bottom</td><td><p>Specifies the position of the bottom of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p><ul style="list-style-type: none"><li>• auto - Default position of an element in the flow of the page.</li><li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li></ul></td></tr><tr><td></td><td></td></tr></table> | Property                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Description | flip | <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"><li>• x - Flip along the y-axis, reversing the x-coordinates.</li><li>• y - Flip along the x-axis, reversing the y-coordinates.</li><li>• xy - Flip along both the y- and x-axis.</li><li>• yx - Flip along both the x- and y-axis.</li></ul> | height | <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"><li>• auto - Default position of an element in the flow of the page.</li><li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li><li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li></ul> | left | <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"><li>• auto - Default position of an element in the flow of the page.</li><li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li><li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li></ul> | margin-bottom | <p>Specifies the position of the bottom of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"><li>• auto - Default position of an element in the flow of the page.</li><li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li></ul> |  |  |
|               | Property                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |      |                                                                                                                                                                                                                                                                                                                                                                                       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |
|               | flip                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"><li>• x - Flip along the y-axis, reversing the x-coordinates.</li><li>• y - Flip along the x-axis, reversing the y-coordinates.</li><li>• xy - Flip along both the y- and x-axis.</li><li>• yx - Flip along both the x- and y-axis.</li></ul>                                                                                                                                                                                                                                                                                                                                                                      |             |      |                                                                                                                                                                                                                                                                                                                                                                                       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |
|               | height                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"><li>• auto - Default position of an element in the flow of the page.</li><li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li><li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li></ul>                                                                                                                                      |             |      |                                                                                                                                                                                                                                                                                                                                                                                       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |
|               | left                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"><li>• auto - Default position of an element in the flow of the page.</li><li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li><li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li></ul> |             |      |                                                                                                                                                                                                                                                                                                                                                                                       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |
| margin-bottom | <p>Specifies the position of the bottom of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"><li>• auto - Default position of an element in the flow of the page.</li><li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |      |                                                                                                                                                                                                                                                                                                                                                                                       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |
|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |      |                                                                                                                                                                                                                                                                                                                                                                                       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |



| Attributes | Description             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                         | <ul style="list-style-type: none"> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|            | margin-left             | <p>Specifies the position of the left of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>   |
|            | margin-right            | <p>Specifies the position of the right of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul> |
|            | margin-top              | <p>Specifies the position of the top of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul>   |
|            | mso-position-horizontal | <p>Specifies the horizontal positioning data for objects in WordprocessingML documents. Default is absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• absolute</li> <li>• left</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| Attributes | Description                      |                                                                                                                                                                                                                                                                                                   |
|------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                                  | <ul style="list-style-type: none"> <li>• center</li> <li>• right</li> <li>• inside</li> <li>• outside</li> </ul>                                                                                                                                                                                  |
|            | mso-position-horizontal-relative | <p>Specifies relative horizontal position data for objects in WordprocessingML documents. This modifies the mso-position-horizontal property. Default is text. Allowed values are:</p> <ul style="list-style-type: none"> <li>• margin</li> <li>• page</li> <li>• text</li> <li>• char</li> </ul> |
|            | mso-position-vertical            | <p>Specifies the vertical positioning data for objects in WordprocessingML documents. Default is absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• absolute</li> <li>• top</li> <li>• center</li> <li>• bottom</li> <li>• inside</li> <li>• outside</li> </ul>           |
|            | mso-position-vertical-relative   | <p>Specifies relative vertical position data for objects in WordprocessingML documents. This modifies the mso-position-vertical property. Default is text. Allowed values are:</p> <ul style="list-style-type: none"> <li>• margin</li> <li>• page</li> <li>• text</li> <li>• line</li> </ul>     |
|            | mso-wrap-distance-bottom         | <p>Specifies the distance from the bottom of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>               |
|            | mso-wrap-distance-left           | <p>Specifies the distance from the left side of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change</p>                        |

| Attributes | Description             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                         | the origin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|            | mso-wrap-distance-right | Specifies the distance from the right side of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|            | mso-wrap-distance-top   | Specifies the distance from the top of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|            | mso-wrap-edited         | Specifies whether the wrap coordinates were customized by the user. If the wrap coordinates are generated by an editor, this property is true; otherwise they were customized by a user. Default is false.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|            | mso-wrap-style          | <p>Specifies the wrapping mode for text in shapes in WordprocessingML documents. Default is square. Allowed values are:</p> <ul style="list-style-type: none"> <li>• square - Wraps text inside the shape in a square.</li> <li>• none - Text does not wrap.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|            | position                | <p>Specifies the kind of positioning used to place an element. Default is static. When the element is contained inside a group, this property shall be absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• static - The element is positioned according to the normal flow of the page. The top and left properties are ignored. If the object is anchored inline, this value is used.</li> <li>• absolute - The element is positioned relative to the parent, using the top and left properties.</li> <li>• relative - The element is positioned according to the normal flow of the page, but the top and left properties are used. The overlap of overlapping elements is governed by the z-index property.</li> </ul> |
|            | rotation                | Specifies the angle that a shape is rotated, in degrees. Default is 0. Positive angles are clockwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|            | top                     | Specifies the position of the top of the containing block of the shape relative to the element above it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:                                                                                                                                                                                                                                                                                                                                                                                                         |

| Attributes                                                                                                                                                                                                                         | Description                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |             |           |                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                    |                                                                                                                                   | <ul style="list-style-type: none"><li>• auto - Default position of an element in the flow of the page.</li><li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li><li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li></ul>                                                                                                                                                                                                             |          |             |           |                                                                                                                                   |
|                                                                                                                                                                                                                                    | visibility                                                                                                                        | <p>Specifies whether a shape is displayed. Only inherit and hidden are used; any other values are mapped to inherit. Default is inherit. Allowed values are:</p> <ul style="list-style-type: none"><li>• hidden - The shape is not visible, but is still part of the flow of the objects in the browser. Mouse events are not processed.</li><li>• inherit - The visibility state is inherited from the parent of the shape.</li></ul>                                                                                                                                                                              |          |             |           |                                                                                                                                   |
|                                                                                                                                                                                                                                    | width                                                                                                                             | <p>Specifies the width of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"><li>• auto - Default position of an element in the flow of the page.</li><li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li><li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li></ul> |          |             |           |                                                                                                                                   |
|                                                                                                                                                                                                                                    | z-index                                                                                                                           | <p>Specifies the display order of overlapping shapes. Default is 0. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"><li>• auto - Uses the order that the shapes appear in the page, bottom to top.</li><li>• &lt;order&gt;- A number that represents the stacking precedence. Shapes with higher numbers are placed on top of those with lower numbers. Negative numbers are allowed.</li></ul>                                                                                                                                               |          |             |           |                                                                                                                                   |
| <p>The following properties are only used by the textbox element (§19.1.2.22):</p>                                                                                                                                                 |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |             |           |                                                                                                                                   |
| <table><tr><th>Property</th><th>Description</th></tr><tr><td>direction</td><td>Specifies the direction of the text in the textbox. Default is ltr. This property is superceded by the mso-direction-alt property</td></tr></table> |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Property | Description | direction | Specifies the direction of the text in the textbox. Default is ltr. This property is superceded by the mso-direction-alt property |
| Property                                                                                                                                                                                                                           | Description                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |             |           |                                                                                                                                   |
| direction                                                                                                                                                                                                                          | Specifies the direction of the text in the textbox. Default is ltr. This property is superceded by the mso-direction-alt property |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |             |           |                                                                                                                                   |

| Attributes            | Description                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | <p>if that is specified. Allowed values are:</p> <ul style="list-style-type: none"> <li>• ltr - Text is displayed left-to-right.</li> <li>• rtl - Text is displayed right-to-left.</li> </ul>                                                                                                                                                                                                                           |
| layout-flow           | <p>Determines the flow of the text layout in a textbox. Default is horizontal. Allowed values are:</p> <ul style="list-style-type: none"> <li>• horizontal - Text is displayed horizontally.</li> <li>• vertical - Text is displayed vertically.</li> <li>• vertical-ideographic - Ideographic text is displayed vertically.</li> <li>• horizontal-ideographic - Ideographic text is displayed horizontally.</li> </ul> |
| mso-direction-alt     | <p>Specifies an alternate direction for text in textboxes. Overrides the direction property. The only allowed value is context.</p>                                                                                                                                                                                                                                                                                     |
| mso-fit-shape-to-text | <p>Specifies whether the shape stretches to fit the text in the textbox. Default is false.</p>                                                                                                                                                                                                                                                                                                                          |
| mso-fit-text-to-shape | <p>Specifies whether the text stretches to fit the textbox. Default is false.</p>                                                                                                                                                                                                                                                                                                                                       |
| mso-layout-flow-alt   | <p>Specifies the alternate layout flow for text in textboxes. This property is used instead of layout-flow when the layout flow is from bottom to top for non-ideographic languages. Its only value is bottom-to-top.</p>                                                                                                                                                                                               |
| mso-next-textbox      | <p>Specifies the ID of the next textbox in a series. Used to keep track of a set of linked textboxes. Default is no value.</p>                                                                                                                                                                                                                                                                                          |
| mso-rotate            | <p>Specifies a specific rotation value for text in a textbox. Default is 0. Allowed values are:</p> <ul style="list-style-type: none"> <li>• 0</li> <li>• 90</li> <li>• 180</li> <li>• -90</li> </ul>                                                                                                                                                                                                                   |
| mso-text-scale        | <p>Specifies the scaling factor for fitting text to shapes. Default is 0. This property is only used if mso-fit-text-to-shape is true.</p>                                                                                                                                                                                                                                                                              |
| v-text-anchor         | <p>Specifies the vertical anchoring of text in a textbox. Default is top. The alignment of a text anchor only becomes evident if mso-fit-text-to-shape is false. This property is different from the</p>                                                                                                                                                                                                                |

| Attributes   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |              |                                                                                                                                                                                                                                          |             |                                                                                                                                                              |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              | <p>vertical-align CSS property, which is used for ideographic languages. Allowed values are:</p> <ul style="list-style-type: none"> <li>• top</li> <li>• middle</li> <li>• bottom</li> <li>• top-center</li> <li>• middle-center</li> <li>• bottom-center</li> <li>• top-baseline</li> <li>• bottom-baseline</li> <li>• top-center-baseline</li> <li>• bottom-center-baseline</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |              |                                                                                                                                                                                                                                          |             |                                                                                                                                                              |
|              | <p>The following properties are only used by the textpath element (§19.1.2.23):</p> <table> <tr> <th data-bbox="415 850 662 898">Property</th><th data-bbox="669 850 1471 898">Description</th></tr> <tr> <td data-bbox="415 907 662 1052">font</td><td data-bbox="669 907 1471 1052">Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family.</td></tr> <tr> <td data-bbox="415 1060 662 1136">font-family</td><td data-bbox="669 1060 1471 1136">Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property.</td></tr> <tr> <td data-bbox="415 1144 662 1255">font-size</td><td data-bbox="669 1144 1471 1255">Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property.</td></tr> <tr> <td data-bbox="415 1264 662 1528">font-style</td><td data-bbox="669 1264 1471 1528"> <p>Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• normal</li> <li>• italic</li> <li>• oblique - Treated the same as italic.</li> </ul> </td></tr> <tr> <td data-bbox="415 1537 662 1755">font-variant</td><td data-bbox="669 1537 1471 1755"> <p>Specifies the variant style of a font. Default is normal. The values are the same as those of the CSS font-variant property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• normal</li> <li>• small-caps</li> </ul> </td></tr> <tr> <td data-bbox="415 1764 662 1862">font-weight</td><td data-bbox="669 1764 1471 1862">Specifies the thickness of the letters of the font. Default is normal. The values are the same as those of the CSS font-weight property. Allowed values are:</td></tr> </table> | Property | Description | font | Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family. | font-family | Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property. | font-size | Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property. | font-style | <p>Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• normal</li> <li>• italic</li> <li>• oblique - Treated the same as italic.</li> </ul> | font-variant | <p>Specifies the variant style of a font. Default is normal. The values are the same as those of the CSS font-variant property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• normal</li> <li>• small-caps</li> </ul> | font-weight | Specifies the thickness of the letters of the font. Default is normal. The values are the same as those of the CSS font-weight property. Allowed values are: |
| Property     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |              |                                                                                                                                                                                                                                          |             |                                                                                                                                                              |
| font         | Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |              |                                                                                                                                                                                                                                          |             |                                                                                                                                                              |
| font-family  | Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |              |                                                                                                                                                                                                                                          |             |                                                                                                                                                              |
| font-size    | Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |              |                                                                                                                                                                                                                                          |             |                                                                                                                                                              |
| font-style   | <p>Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• normal</li> <li>• italic</li> <li>• oblique - Treated the same as italic.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |              |                                                                                                                                                                                                                                          |             |                                                                                                                                                              |
| font-variant | <p>Specifies the variant style of a font. Default is normal. The values are the same as those of the CSS font-variant property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• normal</li> <li>• small-caps</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |              |                                                                                                                                                                                                                                          |             |                                                                                                                                                              |
| font-weight  | Specifies the thickness of the letters of the font. Default is normal. The values are the same as those of the CSS font-weight property. Allowed values are:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |              |                                                                                                                                                                                                                                          |             |                                                                                                                                                              |

| Attributes            | Description                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|--------|----------------------|---------|-----|-----|-----|-----|------|------------------|--------|-----|-----|-----|-----|-----|
|                       |                                                                                                                                                                                                                                                                                         | <table><tr><th>Value</th><th>Description</th></tr><tr><td>normal</td><td rowspan="6">Treated as non-bold.</td></tr><tr><td>lighter</td></tr><tr><td>100</td></tr><tr><td>200</td></tr><tr><td>300</td></tr><tr><td>400</td></tr><tr><td>bold</td><td rowspan="7">Treated as bold.</td></tr><tr><td>bolder</td></tr><tr><td>500</td></tr><tr><td>600</td></tr><tr><td>700</td></tr><tr><td>800</td></tr><tr><td>900</td></tr></table> | Value | Description | normal | Treated as non-bold. | lighter | 100 | 200 | 300 | 400 | bold | Treated as bold. | bolder | 500 | 600 | 700 | 800 | 900 |
|                       | Value                                                                                                                                                                                                                                                                                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|                       | normal                                                                                                                                                                                                                                                                                  | Treated as non-bold.                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|                       | lighter                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|                       | 100                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|                       | 200                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|                       | 300                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|                       | 400                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|                       | bold                                                                                                                                                                                                                                                                                    | Treated as bold.                                                                                                                                                                                                                                                                                                                                                                                                                     |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|                       | bolder                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 500                   |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 600                   |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 700                   |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 800                   |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 900                   |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| mso-text-shadow       | Specifies whether a shadow is applied to the text on a text path. Default is false.                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| text-decoration       | Specifies the style of text decoration. Default is none. The values are the same as those of the CSS text-decoration property. Allowed values are: <ul style="list-style-type: none"><li>• none</li><li>• underline</li><li>• overline</li><li>• line-through</li><li>• blink</li></ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| v-rotate-letters      | Specifies whether the letters of the text are rotated counterclockwise by 90 degrees. Default is false.                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| v-same-letter-heights | Specifies whether all letters are the same height regardless of initial case. If true, the lowercase letters are stretched to the height of the uppercase letters. Default is false.                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| v-text-align          | Specifies the alignment of text. Default is left. Allowed values are:                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |

| Attributes          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                                                                                                                                                                                                                                      |             |                                                           |                |                                                                                                                  |                     |                                                                                                                                                                                                                                                                                                                                                                                        |                |                                                                                            |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------|
|                     | <table> <tr> <td data-bbox="418 247 662 590"></td><td data-bbox="662 247 1463 590"> <ul style="list-style-type: none"> <li>• left</li> <li>• right</li> <li>• center</li> <li>• justify</li> <li>• letter-justify - Distributes the extra space between the letters.</li> <li>• stretch-justify - Stretches the letters to fill in the space.</li> </ul> </td></tr> <tr> <td data-bbox="418 590 662 667">v-text-kern</td><td data-bbox="662 590 1463 667">Specifies whether kerning is turned on. Default is false.</td></tr> <tr> <td data-bbox="418 667 662 745">v-text-reverse</td><td data-bbox="662 667 1463 745">Specifies whether the layout order of rows is reversed. Default is false. This is used for vertical text layout.</td></tr> <tr> <td data-bbox="418 745 662 1052">v-text-spacing-mode</td><td data-bbox="662 745 1463 1052"> <p>Specifies the mode for letter spacing. Default is tightening. This property determines whether space is removed between each letter (tightening) or added between each letter (tracking). The amount of letter spacing change is defined by the v-text-spacing property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• tightening</li> <li>• tracking</li> </ul> </td></tr> <tr> <td data-bbox="418 1052 662 1129">v-text-spacing</td><td data-bbox="662 1052 1463 1129">Specifies the amount of spacing for text in 100ths of single line spacing. Default is 100.</td></tr> </table> |  | <ul style="list-style-type: none"> <li>• left</li> <li>• right</li> <li>• center</li> <li>• justify</li> <li>• letter-justify - Distributes the extra space between the letters.</li> <li>• stretch-justify - Stretches the letters to fill in the space.</li> </ul> | v-text-kern | Specifies whether kerning is turned on. Default is false. | v-text-reverse | Specifies whether the layout order of rows is reversed. Default is false. This is used for vertical text layout. | v-text-spacing-mode | <p>Specifies the mode for letter spacing. Default is tightening. This property determines whether space is removed between each letter (tightening) or added between each letter (tracking). The amount of letter spacing change is defined by the v-text-spacing property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• tightening</li> <li>• tracking</li> </ul> | v-text-spacing | Specifies the amount of spacing for text in 100ths of single line spacing. Default is 100. |
|                     | <ul style="list-style-type: none"> <li>• left</li> <li>• right</li> <li>• center</li> <li>• justify</li> <li>• letter-justify - Distributes the extra space between the letters.</li> <li>• stretch-justify - Stretches the letters to fill in the space.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                                                                                                                                                                                                                                      |             |                                                           |                |                                                                                                                  |                     |                                                                                                                                                                                                                                                                                                                                                                                        |                |                                                                                            |
| v-text-kern         | Specifies whether kerning is turned on. Default is false.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                                                                      |             |                                                           |                |                                                                                                                  |                     |                                                                                                                                                                                                                                                                                                                                                                                        |                |                                                                                            |
| v-text-reverse      | Specifies whether the layout order of rows is reversed. Default is false. This is used for vertical text layout.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                                      |             |                                                           |                |                                                                                                                  |                     |                                                                                                                                                                                                                                                                                                                                                                                        |                |                                                                                            |
| v-text-spacing-mode | <p>Specifies the mode for letter spacing. Default is tightening. This property determines whether space is removed between each letter (tightening) or added between each letter (tracking). The amount of letter spacing change is defined by the v-text-spacing property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• tightening</li> <li>• tracking</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                      |             |                                                           |                |                                                                                                                  |                     |                                                                                                                                                                                                                                                                                                                                                                                        |                |                                                                                            |
| v-text-spacing      | Specifies the amount of spacing for text in 100ths of single line spacing. Default is 100.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                                                                                                                      |             |                                                           |                |                                                                                                                  |                     |                                                                                                                                                                                                                                                                                                                                                                                        |                |                                                                                            |
|                     | <p>The line (§19.1.2.12), polyline (§19.1.2.15) and curve (§19.1.2.3) elements ignore the following properties:</p> <ul style="list-style-type: none"> <li>• top</li> <li>• left</li> <li>• width</li> <li>• height</li> </ul> <p>The following properties are not inherited by an element that references a shapetype element (§19.1.2.20) via the id attribute:</p> <ul style="list-style-type: none"> <li>• flip</li> <li>• height</li> <li>• left</li> <li>• margin-left</li> <li>• margin-top</li> <li>• position</li> <li>• rotation</li> <li>• top</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                                                                                                                                                                                                                                      |             |                                                           |                |                                                                                                                  |                     |                                                                                                                                                                                                                                                                                                                                                                                        |                |                                                                                            |



| Attributes                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|--------------|----------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------|
|                                   | <ul style="list-style-type: none"> <li>• visibility</li> <li>• width</li> <li>• z-index</li> </ul> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| target (Hyperlink Display Target) | <p>Specifies a frame or window that a URL is displayed in. Default is no value. Allowed values are:</p> <table border="1" data-bbox="415 583 1471 1220"> <thead> <tr> <th>Value</th><th>Description</th></tr> </thead> <tbody> <tr> <td>&lt;targetname&gt;</td><td>String containing the name of the frame or window in which to load the document.</td></tr> <tr> <td>_blank</td><td>Specifies that the linked document is loaded into a new blank window. This window is not named.</td></tr> <tr> <td>_media</td><td>Specifies that the linked document is loaded into the browser's multimedia pane.</td></tr> <tr> <td>_parent</td><td>Specifies that the linked document is loaded into the immediate parent of the document containing the link.</td></tr> <tr> <td>_search</td><td>Specifies that the linked document is loaded into the browser's search pane.</td></tr> <tr> <td>_self</td><td>Specifies that the linked document is loaded into the window in which the link was clicked (the active window).</td></tr> <tr> <td>_top</td><td>Specifies that the linked document is loaded into the topmost window.</td></tr> </tbody> </table> <p>[Example:</p> <pre>&lt;v:shape ...   href="http://www.openxmlformats.org"   target="_self" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> | Value | Description | <targetname> | String containing the name of the frame or window in which to load the document. | _blank | Specifies that the linked document is loaded into a new blank window. This window is not named. | _media | Specifies that the linked document is loaded into the browser's multimedia pane. | _parent | Specifies that the linked document is loaded into the immediate parent of the document containing the link. | _search | Specifies that the linked document is loaded into the browser's search pane. | _self | Specifies that the linked document is loaded into the window in which the link was clicked (the active window). | _top | Specifies that the linked document is loaded into the topmost window. |
| Value                             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| <targetname>                      | String containing the name of the frame or window in which to load the document.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| _blank                            | Specifies that the linked document is loaded into a new blank window. This window is not named.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| _media                            | Specifies that the linked document is loaded into the browser's multimedia pane.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| _parent                           | Specifies that the linked document is loaded into the immediate parent of the document containing the link.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| _search                           | Specifies that the linked document is loaded into the browser's search pane.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| _self                             | Specifies that the linked document is loaded into the window in which the link was clicked (the active window).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| _top                              | Specifies that the linked document is loaded into the topmost window.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| title (Shape Title)               | <p>Specifies the text displayed when the mouse pointer moves over the shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... title="tooltip" ... &gt; &lt;/v:shape&gt;</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |

| Attributes                                                                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                         | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p>userdrawn (Exists In Master Slide)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether the user has added the shape to a master slide. Default is <code>false</code>. Used by PresentationML.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:userdrawn="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                       |
| <p>userhidden (Hide Script Anchors)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>   | <p>Specifies whether a script anchor is hidden. Default is <code>false</code>. If <code>true</code>, script anchors stay hidden even if the shape is otherwise visible. A script anchor is the visual representation of a script that when displayed in an application.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:userhidden="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                          |
| <p>wrapcoords (Shape Bounding Polygon)</p>                                                              | <p>Specifies the bounding polygon that surrounds a shape. This is specified using a comma-delimited list of x and y coordinates: "x1,y1,x2,y2,x3,y3,..." This is used when text is tightly wrapped around a shape. Default is no value until the <code>mso-wrap-mode</code> style attribute is set to <code>tight</code> or <code>through</code>.</p> <p>[Example:</p> <pre>&lt;v:shape ...   wrapcoords="0,0 0,200, 200,200, 200,0" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |

[Note: The W3C XML Schema definition of this element's content model (CT\_Arc) is located in §A.6.1. *end note*]

### 19.1.2.2 background (Document Background)

This element describes the fill of the background of a page using vector graphics fills. Fills consist of simple colors, more advanced effects defined through the fill element (§19.1.2.5), or images.

[Example: The following shades the page background a pale red:

```
<v:background fillcolor="#c0504d">
</v:background>
```

This uses the fill element (§19.1.2.5) to create a gradient background fill:

```
<v:background>
  <v:fill type="gradient" color="#c0504d" color2="#f0504d" angle="45"/>
</v:background>
```

*end example]*

| Parent Elements                                                                             |
|---------------------------------------------------------------------------------------------|
| background (Part 1, §17.2.1); object (Part 1, §17.3.3.19); pict (§14.2.2.2); pict (§14.5.1) |

| Child Elements               | Subclause |
|------------------------------|-----------|
| fill (Shape Fill Properties) | §19.1.2.5 |

| Attributes                                                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| bwmode (Black-and-White Mode)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | Specifies how a shape renders for black-and-white output devices. When a shape is printed on a black-and-white printer or displayed in a black-and-white view in an application, several options are possible. Default is auto, which uses o:bwnormal for normal black-and-white rendering and o:bwpure for pure black-and-white rendering<br><br>[Example: This shape renders in grayscale in a black-and-white environment:<br><br><pre>&lt;v:shape ... o:bwmode="grayscale" ... &gt; &lt;/v:shape&gt;</pre> <i>end example]</i><br><br>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3). |
| bwnormal (Normal)                                                                          | Specifies the black-and-white mode for normal black-and-white output devices. Default                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| Attributes                                                                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Black-and-White Mode)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>              | <p>is auto.</p> <p>[<i>Example:</i> This shape renders in a pale grayscale in a normal black-and-white environment:</p> <pre>&lt;v:shape ...   o:bwmode="lightgrayscale" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <p>bwpure (Pure Black-and-White Mode)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies the black-and-white mode for pure black-and-white output devices. Default is auto.</p> <p>[<i>Example:</i> This shape renders in high contrast when in a pure black-and-white environment:</p> <pre>&lt;v:shape ... o:bwmode="highcontrast" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3).</p>                                                                                                                                                                                                                                                                                                                                                  |
| <p>fillcolor (Fill Color)</p>                                                                           | <p>Specifies the color to use for the fill. Default is white. If the fill element (§19.1.2.5) is present, its color attribute takes precedence. Colors are typically specified as either a named color, such as red, or six hexadecimal digits representing the red, green and blue values of the color, such as #00FF30. Full details are specified in the simple type description.</p> <p>[<i>Example:</i> This shape is red if its fill is visible:</p> <pre>&lt;v:shape ... fillcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p>This is equivalent to:</p> <pre>&lt;v:shape ... fillcolor="#ff0000" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p> |

| Attributes                                                                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>filled (Shape Fill Toggle)</p>                                                                          | <p>Specifies whether the closed path is filled. Default is true. This attribute is overridden by the fill on attribute.</p> <p>[Example:</p> <pre data-bbox="451 426 792 531">&lt;v:shape ... filled="f"   fillcolor="red" ...&gt; &lt;/v:shape&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <p>id (Unique Identifier)</p>                                                                              | <p>Specifies a unique identifier that can be used to reference a VML object.</p> <p>Default is no value.</p> <p>[Example:</p> <pre data-bbox="451 1066 889 1140">&lt;v:shape ... id="myShape" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                     |
| <p>targetscreensize (Target Screen Size)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies the target resolution used for WordprocessingML documents with a gradient or picture filled background. Default is no value. Allowed values are:</p> <ul data-bbox="459 1434 630 1665" style="list-style-type: none"> <li>• 544,376</li> <li>• 640,480</li> <li>• 720,512</li> <li>• 800,600</li> <li>• 1024,768</li> <li>• 1152,862</li> </ul> <p>The possible values for this attribute are defined by the ST_ScreenSize simple type (§19.2.3.23).</p>  |

[*Note*: The W3C XML Schema definition of this element's content model ([CT\\_Background](#)) is located in §A.6.1.  
*end note*]

### 19.1.2.3 curve (Bezier Curve)

This element is used to draw a cubic bézier curve.

The following properties of the style attribute are ignored:

- top
- margin-top
- center-y
- left
- margin-left
- center-x
- width
- height

[*Example*: The following specifies a simple curve that opens upward:

```
<v:curve id="mycurve"
  from="10pt,10pt" to="100pt,10pt"
  control1="40pt,30pt" control2="85pt,30pt">
</v:curve>
```

This shape is created:



*end example*]

| Parent Elements                                                                                                |
|----------------------------------------------------------------------------------------------------------------|
| background (Part 1, §17.2.1); group (§19.1.2.7); object (Part 1, §17.3.3.19); pict (§14.2.2.2); pict (§14.5.1) |

| Child Elements                         | Subclause  |
|----------------------------------------|------------|
| anchorlock (Anchor Location Is Locked) | §19.3.2.1  |
| borderbottom (Bottom Border)           | §19.3.2.2  |
| borderleft (Left Border)               | §19.3.2.3  |
| borderright (Right Border)             | §19.3.2.4  |
| bordertop (Top Border)                 | §19.3.2.5  |
| callout (Callout)                      | §19.2.2.2  |
| ClientData (Attached Object Data)      | §19.4.2.12 |
| clippath (Shape Clipping Path)         | §19.2.2.3  |

| Child Elements                         | Subclause  |
|----------------------------------------|------------|
| extrusion (3D Extrusion)               | §19.2.2.11 |
| fill (Shape Fill Properties)           | §19.1.2.5  |
| formulas (Set of Formulas)             | §19.1.2.6  |
| handles (Set of Handles)               | §19.1.2.9  |
| imagedata (Image Data)                 | §19.1.2.11 |
| lock (Shape Protections)               | §19.2.2.18 |
| path (Shape Path)                      | §19.1.2.14 |
| shadow (Shadow Effect)                 | §19.1.2.18 |
| signatureline (Digital Signature Line) | §19.2.2.30 |
| skew (Skew Transform)                  | §19.2.2.31 |
| stroke (Line Stroke Settings)          | §19.1.2.21 |
| textbox (Text Box)                     | §19.1.2.22 |
| textdata (VML Diagram Text)            | §19.5.2.2  |
| textpath (Text Layout Path)            | §19.1.2.23 |
| wrap (Text Wrapping)                   | §19.3.2.6  |

| Attributes                                                                                              | Description                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>allowincell (Allow in Table Cell)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>  | <p>Specifies whether a shape can be placed in a table. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:allowincell="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                              |
| <p>allowoverlap (Allow Shape Overlap)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether a shape can overlap another shape. Default is true. If false, the shape shifts left or right so as not to overlap another shape, similar to the behavior of the HTML float attribute.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:allowoverlap="false" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> |

| Attributes                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                            | The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| alt (Alternate Text)                       | <p>Specifies alternative text describing the graphical object. This text should provide a brief description of the shape for use by accessibility tools. Default is no value.</p> <p>[Example: The alt text describes the basic shape:</p> <pre>&lt;v:shape ... fillcolor="red"   alt="Red rectangle"&gt; &lt;/v:shape&gt;</pre> <p>The alt text describes the contents of a shape displaying an image:</p> <pre>&lt;v:shape ... alt="Picture of a sunset"&gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| borderbottomcolor<br>(Bottom Border Color) | <p>Specifies the bottom border color of an inline shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:borderbottomcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                     |
| borderleftcolor<br>(Border Left Color)     | <p>Specifies the left border color of an inline shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:borderleftcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                         |
| borderrightcolor<br>(Border Right Color)   | <p>Specifies the right border color of an inline shape. Default is no value.</p> <p>[Example:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |



| Attributes                                                                                               | Description                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Namespace:<br>urn:schemas-microsoft-com:office:office                                                    | <pre>&lt;v:shape ... o:borderrightcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                          |
| <b>bordertopcolor</b><br>(Border Top Color)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies the top border color of an inline shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:bordertopcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                            |
| <b>bullet</b> (Graphical Bullet)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office            | <p>Specifies whether the shape is a graphical bullet. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:bullet="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                |
| <b>button</b> (Button Behavior Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office      | <p>Specifies whether a shape exhibits button press behavior on click. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:button="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                |
| <b>bwmode</b> (Black-and-White Mode)<br><br>Namespace:                                                   | <p>Specifies how a shape renders for black-and-white output devices. When a shape is printed on a black-and-white printer or displayed in a black-and-white view in an application, several options are possible. Default is auto, which uses o:bwnormal for normal black-and-white rendering and o:bwpure for pure black-and-white rendering.</p> |

| Attributes                                                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| urn:schemas-microsoft-com:office:office                                                             | <p>bwnormal and bwpure are subordinate to bwmode. If bwmode is "auto" then the value for bwnormal or bwpure is used depending on what the output format is. An application can define for itself what, if any, difference there is between normal B&amp;W and pure B&amp;W. <i>[Example: Normal B&amp;W might allow greyscale and pure B&amp;W might not. end example]</i></p> <p><i>[Example: This shape renders in grayscale in a black-and-white environment:</i></p> <pre>&lt;v:shape ... o:bwmode="grayscale" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3).</p> |
| bwnormal (Normal Black-and-White Mode)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies the black-and-white mode for normal black-and-white output devices. Default is auto.</p> <p><i>[Example: This shape renders in a pale grayscale in a normal black-and-white environment:</i></p> <pre>&lt;v:shape ... o:bwmode="auto" o:bwnormal="lightgrayscale" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3).</p>                                                                                                                                                                                                                                     |
| bwpure (Pure Black-and-White Mode)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office     | <p>Specifies the black-and-white mode for pure black-and-white output devices. Default is auto.</p> <p><i>[Example: This shape renders in high contrast when in a pure black-and-white environment:</i></p> <pre>&lt;v:shape ... o:bwmode="auto" o:bpure="highcontrast" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3).</p>                                                                                                                                                                                                                                            |
| chromakey (Image Transparency Color)                                                                | <p>Specifies a color value that is transparent and show anything behind the shape. Default is no value.</p> <p><i>[Example:</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

| Attributes                                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                     | <pre>&lt;v:image ... chromakey="white" ...&gt; &lt;/v:image&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p>                                                                                                                                                                                                                                                                                               |
| class (CSS Reference)                                                               | <p>Specifies a reference to the definition of a CSS style. Default is no value.</p> <p>[Example: The snippets below are equivalent:</p> <pre>... .narrowstyle {width:50;height:100} ... &lt;v:shape ... class="narrowstyle"   style="top:1;left:1"&gt; &lt;/v:shape&gt;</pre> <pre>&lt;v:shape ... style="top:1;left:1;   width:50;height:100"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| clip (Clipping Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies that the clipping region is active. This is used in conjunction with the clippath (§19.2.2.3) element to create a clipping region.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:clip="true"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                  |
| cliptowrap (Clip to Wrapping Polygon)<br><br>Namespace:<br>urn:schemas-microsoft-   | <p>Specifies that the clipping region for the shape aligns with the wrapping polygon that tightly surrounds the entire shape (essentially, that the shape shall not be drawn beyond its wrapping polygon's extents – if it does, the shape shall be clipped). Default is false.</p> <p>[Example:</p>                                                                                                                                                                                                  |

| Attributes                                                                                                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| com:office:office                                                                                            | <pre>&lt;v:shape ... o:cliptowrap="true"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                             |
| connectortype<br>(Shape Connector Type)<br><br>Namespace:<br>urn:schemas-<br>microsoft-<br>com:office:office | <p>Specifies the kind of connector used for joining shapes. Default is straight.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:connectortype="elbow" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ConnectorType simple type (§19.2.3.7).</p>                                                                                                                                          |
| control1 (First Curve Control Point)                                                                         | <p>Specifies the first control point for the curve, given in the coordinate space of the parent element. Default is "10,10". If the parent is not a VML element, the default unit is a pixel. Allowed units are in, cm, mm, pt, pc and px.</p> <p>[Example:</p> <pre>&lt;v:curve ... control1="20,30" ... &gt; &lt;/v:curve&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| control2 (Second Curve Control Point)                                                                        | <p>Specifies the second control point for the curve, given in the coordinate space of the parent element. Default is "20,0". If the parent is not a VML element, the default unit is a pixel. Allowed units are in, cm, mm, pt, pc and px.</p> <p>[Example:</p> <pre>&lt;v:curve ... control2="50,20" ... &gt; &lt;/v:curve&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |

| Attributes                                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>coordorigin</b><br>(Coordinate Space Origin) | <p>Specifies the coordinate of the top left corner of the shape's coordinate space. This determines the position of the (0,0) coordinate space origin within the shape's bounding box. Default is "0,0", which places the (0,0) origin at the top left corner of the bounding box.</p> <p>This affects shape properties that specify coordinate positions, such as the path attribute. Thus a path can be defined against a generic (0,0) origin and the coordorigin value translates the entire path within the shape's bounding space.</p> <p>[Example: The horizontal and vertical coordinate space ranges from -100 to +100 because the coordinate space (coordsize) is 200 by 200 and the top left coordinate is (-100,-100). The (0,0) origin lies at the center of the shape's bounding box, as evidenced by the position of the shape's path within the coordinate space:</p> <pre>&lt;v:shape ... coordsize="200,200"   coordorigin="-100,-100"   path="m 0,0 l 0,50, 50,50, 50,0 x e"&gt; &lt;/v:shape&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <b>coordsize</b><br>(Coordinate Space Size)     | <p>Specifies the size of the shape's coordinate space in coordinate units. Default is "1000,1000".</p> <p>The physical size of a coordinate unit length is determined by both the size of the coordinate space (coordsize) and the size of the shape (style width and height). The coordsize attribute defines the number of horizontal and vertical subdivisions into which the shape's bounding box is divided. The combination of coordsize and style width/height effective scales the shape anisotropically.</p> <p>[Example: The path is 50 units wide and tall, which is 25% of the size of the coordinate space:</p> <pre>&lt;v:shape ... coordsize="200,200"   coordorigin="-100,-100"   path="m 0,0 l 0,50, 50,50, 50,0 x e"&gt; &lt;/v:shape&gt;</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

| Attributes                                                                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                             |  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                             |
| <b>dgmlayout</b><br>(Diagram Node Layout Identifier)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office           | <p>Specifies the kind of automatic layout to apply to the diagram node. This is only meaningful if the shape is a node in an organization chart, which is denoted by the <code>orgchart</code> value of the <code>editas</code> attribute of the group element.</p> <p>[Example:</p> <pre>&lt;v:shape ... dgmlayout="1"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_DiagramLayout simple type (§19.2.3.10).</p>                                 |
| <b>dgmlayoutmru</b><br>(Diagram Node Recent Layout Identifier)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies the kind of automatic layout most recently used on the child elements of the diagram node. This is only meaningful if the shape is a node in an organization chart, which is denoted by the <code>orgchart</code> value of the <code>editas</code> attribute of the group element.</p> <p>[Example:</p> <pre>&lt;v:shape ... dgmlayout="1"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_DiagramLayout simple type (§19.2.3.10).</p> |
| <b>dgmnodekind</b><br>(Diagram Node Identifier)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office                | <p>Specifies an optional, application-defined parameter that is intended to be used by the application to tag different types of nodes in a diagram.</p> <p>[Example:</p> <pre>&lt;v:shape ... dgmnodekind="1"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema integer</p>                                                                                                                                                              |

| Attributes                                                                                                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                               | datatype.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <p>doubleclicknotify<br/>(Double-click Notification Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies that an event message is sent when a shape is double-clicked. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:doubleclicknotify="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                               |
| fillcolor (Fill Color)                                                                                                        | <p>Specifies the color to use for the fill. Default is white. If the fill element (§19.1.2.5) is present, its color attribute takes precedence. Colors are typically specified as either a named color, such as red, or six hexadecimal digits representing the red, green and blue values of the color, such as #00FF30. Full details are specified in the simple type description.</p> <p>[Example: This shape is red if its fill is visible:</p> <pre>&lt;v:shape ... fillcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p>This is equivalent to:</p> <pre>&lt;v:shape ... fillcolor="#ff0000" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p> |
| filled (Shape Fill Toggle)                                                                                                    | <p>Specifies whether the closed path is filled. Default is true. This attribute is overridden by the fill on attribute.</p> <p>[Example:</p> <pre>&lt;v:shape ... filled="f" fillcolor="red" ...&gt; &lt;/v:shape&gt;</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| Attributes                                                                                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                       | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                   |
| <p>forcedash (Force Dashed Outline)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether a dashed outline is used to draw a shape when a shape has no line or fill. Default is false.</p> <p>Used by PresentationML placeholders to draw a dashed outline when there is no line and no fill for a shape.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:forcedash="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <p>from (Curve Starting Point)</p>                                                                    | <p>Specifies the starting point of the line in the coordinate space of the parent element. Default is "0,0". If the parent is not a VML element, the default unit is a pixel. Allowed units are in, cm, mm, pt, pc and px.</p> <p>[Example:</p> <pre>&lt;v:curve ... from="10,10" ... &gt; &lt;/v:curve&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                       |
| <p>hr (Horizontal Rule Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>      | <p>Specifies that a shape is a horizontal rule. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hr="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                           |
| <p>hralign (Horizontal Rule Alignment)</p>                                                            | <p>Specifies the alignment of a horizontal rule. Default is left.</p>                                                                                                                                                                                                                                                                                                                                                                                               |



| Attributes                                                                                                    | Description                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Namespace:<br>urn:schemas-microsoft-com:office:office                                                         | <p>[Example:</p> <pre>&lt;v:shape ... o:hralign="center" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_HrAlign simple type (§19.2.3.16).</p>                                                                                          |
| href (Hyperlink Target)                                                                                       | <p>Specifies a hyperlink URL target for the shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... href="http://www.openxmlformats.org" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| hrnoshade<br>(Horizontal Rule 3D Shading Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies that the horizontal rule does not have 3-D shading. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hrnoshade="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>  |
| hrpct (Horizontal Rule Length Percentage)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office        | <p>Specifies the length of a horizontal rule as a percentage of page width. Default is 0.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hrpct="85" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema float datatype.</p>        |
| hrstd (Horizontal Rule Standard Display Toggle)                                                               | <p>Specifies whether a shape is displayed as a standard horizontal rule. Only applies if hr is true. Default is false.</p> <p>[Example:</p>                                                                                                                                                                 |

| Attributes                                                                               | Description                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Namespace:<br>urn:schemas-microsoft-com:office:office                                    | <pre>&lt;v:shape ... o:hrstd="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                   |
| id (Unique Identifier)                                                                   | <p>Specifies a unique identifier that can be used to reference a VML object.</p> <p>Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... id="myShape" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                             |
| insetmode (Text Inset Mode)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies whether the application calculates the internal text margin instead of using the inset attribute. Default is custom. This attribute is only meaningful for text boxes.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:insetmode="auto" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_InsetMode simple type (§19.2.3.17).</p>     |
| insetpen (Inset Border From Path)                                                        | <p>Specifies that the border shall be displayed inside of the path defining the shape, rather than along the path (the default border placement), or outside of the path as might be done with an image.</p> <p>[Example:</p> <pre>&lt;v:shape ... insetpen="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type</p> |

| Attributes                                                                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>ole (Embedded Object Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>          | <p>(§20.1.2.5).</p> <p>Specifies whether the shape is an embedded object. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:ole="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalseBlank simple type (§20.1.2.6).</p>                                                                                                                             |
| <p>oleicon (Embedded Object Icon Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether an embedded object is displayed as an icon. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:oleicon="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                       |
| <p>oned (Shape Handle Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>            | <p>Specifies whether the extra handles of a shape are hidden. If true, hides all shape handles except the top left and bottom right; that is, the same handles that are used for a straight line segment. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:oned="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <p>opacity (Fill Color Opacity)</p>                                                                        | <p>Specifies the opacity of the primary fill color. Default is 1.0. This numeric value can also be specified in 1/65536-ths if a trailing "f" is supplied. [Example: A value of "52429f" represents 52429/65536 or 0.8. end example]</p> <p>[Example: The red color is 25% opaque:</p> <pre>&lt;v:fill type="gradient" color="red" color2="blue" opacity=".25"&gt; &lt;/v:fill&gt;</pre>                                                       |

| Attributes                                                                                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                            |  <p>opacity="1"</p> <p>opacity=".25"</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                         |
| <p>preferrelative<br/>(Relative Resize Toggle)</p> <p>Namespace:<br/>urn:schemas-<br/>microsoft-<br/>com:office:office</p> | <p>Specifies whether the original size of an object is saved after reformatting. Default is false. If true, the original size of the object is stored and all resizing is based on a percentage of that original size. Otherwise, each resizing resets the scale to 100%.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:preferrelative="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <p>print (Print Toggle)</p>                                                                                                | <p>Specifies whether the shape is printed. Default is true.</p> <p>[Example:</p> <pre>&lt;v:shape ... print="false" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                         |
| <p>regroupid (Regroup ID)</p> <p>Namespace:<br/>urn:schemas-<br/>microsoft-<br/>com:office:office</p>                      | <p>Specifies a previous group for a shape. An ID number is used to identify groups of shapes that are no longer grouped. This allows shapes to be regrouped programmatically.</p> <p>[Example: The shape was part of a group identified by the ID 040754:</p> <pre>&lt;v:shape ... o:regroupid="040754" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p>                                                                                                                                            |

| Attributes                                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                     | The possible values for this attribute are defined by the W3C XML Schema integer datatype.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| spid (Optional String)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | Specifies an optional string that an application can use to identify the particular shape. Default is no value.<br><br>The possible values for this attribute are defined by the W3C XML Schema string datatype.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| spt (Optional Number)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office  | Specifies an optional number that an application can use to associate the particular shape with a defined shape type. Default is 0.<br><br>The possible values for this attribute are defined by the W3C XML Schema float datatype.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| strokecolor (Shape Stroke Color)                                                    | <p>Specifies the primary color of the brush to use to stroke the path of the shape. Default is black. The color attribute of the stroke element (§19.1.2.21) overrides this. Colors are typically specified as either a named color, such as red, or six hexadecimal digits representing the red, green and blue values of the color, such as #00FF30. Full details are specified in the simple type description.</p> <p>[Example:</p> <pre>&lt;v:shape ... strokecolor="red" ...&gt; &lt;/v:shape&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p> |
| stroked (Shape Stroke Toggle)                                                       | <p>Specifies whether the path defining the shape is stroked with a solid line. The stroke element (§19.1.2.21) defines other strokes. The on attribute of the stroke element overrides this attribute. Default is true.</p> <p>[Example:</p> <pre>&lt;v:shape ... fillcolor="red"   stroked="false" strokecolor="blue"...&gt; &lt;/v:shape&gt;</pre>                                                                                                                                                                                                                                                                                                                                                                        |

| Attributes                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |             |      |                                                                                                |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|------|------------------------------------------------------------------------------------------------|
|                                       |  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |             |      |                                                                                                |
| strokeweight<br>(Shape Stroke Weight) | <p>Specifies the width of the brush to use to stroke the path. Default is 1 point. If a number is given without units, the emu is used. The weight attribute of the stroke element (§19.1.2.21) overrides this attribute.</p> <p>[Example:</p> <pre>&lt;v:shape ... strokeweight="3pt" ... &gt; &lt;/v:shape&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |             |      |                                                                                                |
| style (Shape Styling Properties)      | <p>Specifies the CSS2 styling properties of the shape. The CSS2 (Cascading Style Sheets, Level 2) specification, a Recommendation of the World Wide Web Consortium, is available here: <a href="http://www.w3.org/TR/REC-CSS2">http://www.w3.org/TR/REC-CSS2</a>.</p> <p>This attribute uses a semi-colon delimited list of “name:value” pairs, the syntax defined by section 4.1.8 of the CSS2 specification for grouped declarations (without the surrounding braces). The following tables define the allowed properties and the VML treatment of each.</p> <p>[Example:</p> <pre>&lt;v:shape ... style='position:absolute;width:100pt;height:50pt' ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <table border="1" data-bbox="415 1717 1477 1879"> <thead> <tr> <th data-bbox="415 1717 664 1766">Property</th><th data-bbox="664 1717 1477 1766">Description</th></tr> </thead> <tbody> <tr> <td data-bbox="415 1766 664 1879">flip</td><td data-bbox="664 1766 1477 1879">Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</td></tr> </tbody> </table> | Property | Description | flip | Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are: |
| Property                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |             |      |                                                                                                |
| flip                                  | Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |      |                                                                                                |

| Attributes | Description   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |               | <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|            | height        | <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul>                                                                                                                                      |
|            | left          | <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul> |
|            | margin-bottom | <p>Specifies the position of the bottom of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul>                                                                                         |
|            | margin-left   | <p>Specifies the position of the left of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

| Attributes | Description             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                         | <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>                                                                                                                                                                                                                                                            |
|            | margin-right            | <p>Specifies the position of the right of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul> |
|            | margin-top              | <p>Specifies the position of the top of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul>   |
|            | mso-position-horizontal | <p>Specifies the horizontal positioning data for objects in WordprocessingML documents. Default is absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• absolute</li> <li>• left</li> <li>• center</li> <li>• right</li> <li>• inside</li> <li>• outside</li> </ul>                                                                                                                                                                                                                                                                                                                                                                             |
|            | mso-position-           | Specifies relative horizontal position data for objects in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |



| Attributes | Description                    |                                                                                                                                                                                                                                                                                               |
|------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | horizontal-relative            | <p>WordprocessingML documents. This modifies the mso-position-horizontal property. Default is text. Allowed values are:</p> <ul style="list-style-type: none"> <li>• margin</li> <li>• page</li> <li>• text</li> <li>• char</li> </ul>                                                        |
|            | mso-position-vertical          | <p>Specifies the vertical positioning data for objects in WordprocessingML documents. Default is absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• absolute</li> <li>• top</li> <li>• center</li> <li>• bottom</li> <li>• inside</li> <li>• outside</li> </ul>       |
|            | mso-position-vertical-relative | <p>Specifies relative vertical position data for objects in WordprocessingML documents. This modifies the mso-position-vertical property. Default is text. Allowed values are:</p> <ul style="list-style-type: none"> <li>• margin</li> <li>• page</li> <li>• text</li> <li>• line</li> </ul> |
|            | mso-wrap-distance-bottom       | <p>Specifies the distance from the bottom of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>           |
|            | mso-wrap-distance-left         | <p>Specifies the distance from the left side of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>        |
|            | mso-wrap-distance-right        | <p>Specifies the distance from the right side of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>       |

| Attributes | Description           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | mso-wrap-distance-top | Specifies the distance from the top of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|            | mso-wrap-edited       | Specifies whether the wrap coordinates were customized by the user. If the wrap coordinates are generated by an editor, this property is true; otherwise they were customized by a user. Default is false.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|            | mso-wrap-style        | <p>Specifies the wrapping mode for text in shapes in WordprocessingML documents. Default is square. Allowed values are:</p> <ul style="list-style-type: none"> <li>• square - Wraps text inside the shape in a square.</li> <li>• none - Text does not wrap.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|            | position              | <p>Specifies the kind of positioning used to place an element. Default is static. When the element is contained inside a group, this property shall be absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• static - The element is positioned according to the normal flow of the page. The top and left properties are ignored. If the object is anchored inline, this value is used.</li> <li>• absolute - The element is positioned relative to the parent, using the top and left properties.</li> <li>• relative - The element is positioned according to the normal flow of the page, but the top and left properties are used. The overlap of overlapping elements is governed by the z-index property.</li> </ul> |
|            | rotation              | Specifies the angle that a shape is rotated, in degrees. Default is 0. Positive angles are clockwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| Attributes | Description |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | top         | <p>Specifies the position of the top of the containing block of the shape relative to the element above it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> |
|            | visibility  | <p>Specifies whether a shape is displayed. Only inherit and hidden are used; any other values are mapped to inherit. Default is inherit. Allowed values are:</p> <ul style="list-style-type: none"> <li>• hidden - The shape is not visible, but is still part of the flow of the objects in the browser. Mouse events are not processed.</li> <li>• inherit - The visibility state is inherited from the parent of the shape.</li> </ul>                                                                                                                                                                                                                                                                                                                   |
|            | width       | <p>Specifies the width of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>                                                                                                                                     |
|            | z-index     | <p>Specifies the display order of overlapping shapes. Default is 0. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Uses the order that the shapes appear in the page, bottom to top.</li> <li>• &lt;order&gt;- A number that represents the stacking precedence. Shapes with higher numbers are placed on top of those with lower numbers. Negative numbers are allowed.</li> </ul>                                                                                                                                                                                                                                                                                    |

| Attributes            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |             |           |                                                                                                                                                                                                                                                                                                                             |             |                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                                                                                                                                     |                       |                                                                                                |                       |                                                                                   |                     |                                                                                                                                                                                                                           |                  |                                                                                                                                |            |                                                                                                                                                                                  |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | <p>The following properties are only used by the textbox element (§19.1.2.22):</p> <table border="1"> <thead> <tr> <th data-bbox="418 352 662 401">Property</th><th data-bbox="662 352 1481 401">Description</th></tr> </thead> <tbody> <tr> <td data-bbox="418 401 662 667">direction</td><td data-bbox="662 401 1481 667"> <p>Specifies the direction of the text in the textbox. Default is ltr. This property is superceded by the mso-direction-alt property if that is specified. Allowed values are:</p> <ul style="list-style-type: none"> <li>ltr - Text is displayed left-to-right.</li> <li>rtl - Text is displayed right-to-left.</li> </ul> </td></tr> <tr> <td data-bbox="418 667 662 1045">layout-flow</td><td data-bbox="662 667 1481 1045"> <p>Determines the flow of the text layout in a textbox. Default is horizontal. Allowed values are:</p> <ul style="list-style-type: none"> <li>horizontal - Text is displayed horizontally.</li> <li>vertical - Text is displayed vertically.</li> <li>vertical-ideographic - Ideographic text is displayed vertically.</li> <li>horizontal-ideographic - Ideographic text is displayed horizontally.</li> </ul> </td></tr> <tr> <td data-bbox="418 1045 662 1157">mso-direction-alt</td><td data-bbox="662 1045 1481 1157"> <p>Specifies an alternate direction for text in textboxes. Overrides the direction property. The only allowed value is context.</p> </td></tr> <tr> <td data-bbox="418 1157 662 1268">mso-fit-shape-to-text</td><td data-bbox="662 1157 1481 1268"> <p>Specifies whether the shape stretches to fit the text in the textbox. Default is false.</p> </td></tr> <tr> <td data-bbox="418 1268 662 1379">mso-fit-text-to-shape</td><td data-bbox="662 1268 1481 1379"> <p>Specifies whether the text stretches to fit the textbox. Default is false.</p> </td></tr> <tr> <td data-bbox="418 1379 662 1535">mso-layout-flow-alt</td><td data-bbox="662 1379 1481 1535"> <p>Specifies the alternate layout flow for text in textboxes. This property is used instead of layout-flow when the layout flow is from bottom to top for non-ideographic languages. Its only value is bottom-to-top.</p> </td></tr> <tr> <td data-bbox="418 1535 662 1646">mso-next-textbox</td><td data-bbox="662 1535 1481 1646"> <p>Specifies the ID of the next textbox in a series. Used to keep track of a set of linked textboxes. Default is no value.</p> </td></tr> <tr> <td data-bbox="418 1646 662 1864">mso-rotate</td><td data-bbox="662 1646 1481 1864"> <p>Specifies a specific rotation value for text in a textbox. Default is 0. Allowed values are:</p> <ul style="list-style-type: none"> <li>0</li> <li>90</li> <li>180</li> </ul> </td></tr> </tbody> </table> | Property | Description | direction | <p>Specifies the direction of the text in the textbox. Default is ltr. This property is superceded by the mso-direction-alt property if that is specified. Allowed values are:</p> <ul style="list-style-type: none"> <li>ltr - Text is displayed left-to-right.</li> <li>rtl - Text is displayed right-to-left.</li> </ul> | layout-flow | <p>Determines the flow of the text layout in a textbox. Default is horizontal. Allowed values are:</p> <ul style="list-style-type: none"> <li>horizontal - Text is displayed horizontally.</li> <li>vertical - Text is displayed vertically.</li> <li>vertical-ideographic - Ideographic text is displayed vertically.</li> <li>horizontal-ideographic - Ideographic text is displayed horizontally.</li> </ul> | mso-direction-alt | <p>Specifies an alternate direction for text in textboxes. Overrides the direction property. The only allowed value is context.</p> | mso-fit-shape-to-text | <p>Specifies whether the shape stretches to fit the text in the textbox. Default is false.</p> | mso-fit-text-to-shape | <p>Specifies whether the text stretches to fit the textbox. Default is false.</p> | mso-layout-flow-alt | <p>Specifies the alternate layout flow for text in textboxes. This property is used instead of layout-flow when the layout flow is from bottom to top for non-ideographic languages. Its only value is bottom-to-top.</p> | mso-next-textbox | <p>Specifies the ID of the next textbox in a series. Used to keep track of a set of linked textboxes. Default is no value.</p> | mso-rotate | <p>Specifies a specific rotation value for text in a textbox. Default is 0. Allowed values are:</p> <ul style="list-style-type: none"> <li>0</li> <li>90</li> <li>180</li> </ul> |
| Property              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |             |           |                                                                                                                                                                                                                                                                                                                             |             |                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                                                                                                                                     |                       |                                                                                                |                       |                                                                                   |                     |                                                                                                                                                                                                                           |                  |                                                                                                                                |            |                                                                                                                                                                                  |
| direction             | <p>Specifies the direction of the text in the textbox. Default is ltr. This property is superceded by the mso-direction-alt property if that is specified. Allowed values are:</p> <ul style="list-style-type: none"> <li>ltr - Text is displayed left-to-right.</li> <li>rtl - Text is displayed right-to-left.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |             |           |                                                                                                                                                                                                                                                                                                                             |             |                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                                                                                                                                     |                       |                                                                                                |                       |                                                                                   |                     |                                                                                                                                                                                                                           |                  |                                                                                                                                |            |                                                                                                                                                                                  |
| layout-flow           | <p>Determines the flow of the text layout in a textbox. Default is horizontal. Allowed values are:</p> <ul style="list-style-type: none"> <li>horizontal - Text is displayed horizontally.</li> <li>vertical - Text is displayed vertically.</li> <li>vertical-ideographic - Ideographic text is displayed vertically.</li> <li>horizontal-ideographic - Ideographic text is displayed horizontally.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |             |           |                                                                                                                                                                                                                                                                                                                             |             |                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                                                                                                                                     |                       |                                                                                                |                       |                                                                                   |                     |                                                                                                                                                                                                                           |                  |                                                                                                                                |            |                                                                                                                                                                                  |
| mso-direction-alt     | <p>Specifies an alternate direction for text in textboxes. Overrides the direction property. The only allowed value is context.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |             |           |                                                                                                                                                                                                                                                                                                                             |             |                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                                                                                                                                     |                       |                                                                                                |                       |                                                                                   |                     |                                                                                                                                                                                                                           |                  |                                                                                                                                |            |                                                                                                                                                                                  |
| mso-fit-shape-to-text | <p>Specifies whether the shape stretches to fit the text in the textbox. Default is false.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |             |           |                                                                                                                                                                                                                                                                                                                             |             |                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                                                                                                                                     |                       |                                                                                                |                       |                                                                                   |                     |                                                                                                                                                                                                                           |                  |                                                                                                                                |            |                                                                                                                                                                                  |
| mso-fit-text-to-shape | <p>Specifies whether the text stretches to fit the textbox. Default is false.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |             |           |                                                                                                                                                                                                                                                                                                                             |             |                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                                                                                                                                     |                       |                                                                                                |                       |                                                                                   |                     |                                                                                                                                                                                                                           |                  |                                                                                                                                |            |                                                                                                                                                                                  |
| mso-layout-flow-alt   | <p>Specifies the alternate layout flow for text in textboxes. This property is used instead of layout-flow when the layout flow is from bottom to top for non-ideographic languages. Its only value is bottom-to-top.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |           |                                                                                                                                                                                                                                                                                                                             |             |                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                                                                                                                                     |                       |                                                                                                |                       |                                                                                   |                     |                                                                                                                                                                                                                           |                  |                                                                                                                                |            |                                                                                                                                                                                  |
| mso-next-textbox      | <p>Specifies the ID of the next textbox in a series. Used to keep track of a set of linked textboxes. Default is no value.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |             |           |                                                                                                                                                                                                                                                                                                                             |             |                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                                                                                                                                     |                       |                                                                                                |                       |                                                                                   |                     |                                                                                                                                                                                                                           |                  |                                                                                                                                |            |                                                                                                                                                                                  |
| mso-rotate            | <p>Specifies a specific rotation value for text in a textbox. Default is 0. Allowed values are:</p> <ul style="list-style-type: none"> <li>0</li> <li>90</li> <li>180</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |             |           |                                                                                                                                                                                                                                                                                                                             |             |                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                                                                                                                                     |                       |                                                                                                |                       |                                                                                   |                     |                                                                                                                                                                                                                           |                  |                                                                                                                                |            |                                                                                                                                                                                  |

| Attributes   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                              |              |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <ul style="list-style-type: none"><li>-90</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                              |              |
|              | mso-text-scale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Specifies the scaling factor for fitting text to shapes. Default is 0. This property is only used if mso-fit-text-to-shape is true.                                                                                                                                                                                                                                                                                                                                                                                                                         |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                              |              |
|              | v-text-anchor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <p>Specifies the vertical anchoring of text in a textbox. Default is top. The alignment of a text anchor only becomes evident if mso-fit-text-to-shape is false. This property is different from the vertical-align CSS property, which is used for ideographic languages. Allowed values are:</p> <ul style="list-style-type: none"><li>top</li><li>middle</li><li>bottom</li><li>top-center</li><li>middle-center</li><li>bottom-center</li><li>top-baseline</li><li>bottom-baseline</li><li>top-center-baseline</li><li>bottom-center-baseline</li></ul> |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                              |              |
|              | <p>The following properties are only used by the textpath element (§19.1.2.23):</p> <table><tr><th>Property</th><th>Description</th></tr><tr><td>font</td><td>Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family.</td></tr><tr><td>font-family</td><td>Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property.</td></tr><tr><td>font-size</td><td>Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property.</td></tr><tr><td>font-style</td><td><p>Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are:</p><ul style="list-style-type: none"><li>normal</li><li>italic</li><li>oblique - Treated the same as italic.</li></ul></td></tr><tr><td>font-variant</td><td>Specifies the variant style of a font. Default is normal. The values are the same as those of the CSS font-variant property. Allowed values are:</td></tr></table> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Property | Description | font | Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family. | font-family | Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property. | font-size | Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property. | font-style | <p>Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are:</p> <ul style="list-style-type: none"><li>normal</li><li>italic</li><li>oblique - Treated the same as italic.</li></ul> | font-variant |
| Property     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                              |              |
| font         | Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                              |              |
| font-family  | Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                              |              |
| font-size    | Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                              |              |
| font-style   | <p>Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are:</p> <ul style="list-style-type: none"><li>normal</li><li>italic</li><li>oblique - Treated the same as italic.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                              |              |
| font-variant | Specifies the variant style of a font. Default is normal. The values are the same as those of the CSS font-variant property. Allowed values are:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                              |              |

| Attributes      | Description                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|--------|----------------------|---------|-----|-----|-----|-----|------|------------------|--------|-----|-----|-----|-----|-----|
|                 |                                                                                                                                                                                                                                                                                                | <ul style="list-style-type: none"><li>• normal</li><li>• small-caps</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|                 | font-weight                                                                                                                                                                                                                                                                                    | <p>Specifies the thickness of the letters of the font. Default is normal. The values are the same as those of the CSS font-weight property. Allowed values are:</p> <table><tr><th>Value</th><th>Description</th></tr><tr><td>normal</td><td rowspan="6">Treated as non-bold.</td></tr><tr><td>lighter</td></tr><tr><td>100</td></tr><tr><td>200</td></tr><tr><td>300</td></tr><tr><td>400</td></tr><tr><td>bold</td><td rowspan="7">Treated as bold.</td></tr><tr><td>bolder</td></tr><tr><td>500</td></tr><tr><td>600</td></tr><tr><td>700</td></tr><tr><td>800</td></tr><tr><td>900</td></tr></table> | Value | Description | normal | Treated as non-bold. | lighter | 100 | 200 | 300 | 400 | bold | Treated as bold. | bolder | 500 | 600 | 700 | 800 | 900 |
|                 | Value                                                                                                                                                                                                                                                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|                 | normal                                                                                                                                                                                                                                                                                         | Treated as non-bold.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|                 | lighter                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|                 | 100                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 200             |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 300             |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 400             |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| bold            | Treated as bold.                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| bolder          |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 500             |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 600             |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 700             |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 800             |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 900             |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| mso-text-shadow | Specifies whether a shadow is applied to the text on a text path. Default is false.                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| text-decoration | <p>Specifies the style of text decoration. Default is none. The values are the same as those of the CSS text-decoration property. Allowed values are:</p> <ul style="list-style-type: none"><li>• none</li><li>• underline</li><li>• overline</li><li>• line-through</li><li>• blink</li></ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| v-rotate-       | Specifies whether the letters of the text are rotated counterclockwise by 90 degrees. Default is false.                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |

| Attributes                                                                                                                                                                                                                                                                                                                                                                                                                     | Description           |                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                | letters               |                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                | v-same-letter-heights | Specifies whether all letters are the same height regardless of initial case. If true, the lowercase letters are stretched to the height of the uppercase letters. Default is false.                                                                                                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                | v-text-align          | <p>Specifies the alignment of text. Default is left. Allowed values are:</p> <ul style="list-style-type: none"> <li>• left</li> <li>• right</li> <li>• center</li> <li>• justify</li> <li>• letter-justify - Distributes the extra space between the letters.</li> <li>• stretch-justify - Stretches the letters to fill in the space.</li> </ul>                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                | v-text-kern           | Specifies whether kerning is turned on. Default is false.                                                                                                                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                | v-text-reverse        | Specifies whether the layout order of rows is reversed. Default is false. This is used for vertical text layout.                                                                                                                                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                | v-text-spacing-mode   | <p>Specifies the mode for letter spacing. Default is tightening. This property determines whether space is removed between each letter (tightening) or added between each letter (tracking). The amount of letter spacing change is defined by the v-text-spacing property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• tightening</li> <li>• tracking</li> </ul> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                | v-text-spacing        | Specifies the amount of spacing for text in 100ths of single line spacing. Default is 100.                                                                                                                                                                                                                                                                                             |
| <p>The line (§19.1.2.12), polyline (§19.1.2.15) and curve (§19.1.2.3) elements ignore the following properties:</p> <ul style="list-style-type: none"> <li>• top</li> <li>• left</li> <li>• width</li> <li>• height</li> </ul> <p>The following properties are not inherited by an element that references a shapetype element (§19.1.2.20) via the id attribute:</p> <ul style="list-style-type: none"> <li>• flip</li> </ul> |                       |                                                                                                                                                                                                                                                                                                                                                                                        |

| Attributes                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|--------------|----------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------|
|                                   | <ul style="list-style-type: none"> <li>• height</li> <li>• left</li> <li>• margin-left</li> <li>• margin-top</li> <li>• position</li> <li>• rotation</li> <li>• top</li> <li>• visibility</li> <li>• width</li> <li>• z-index</li> </ul> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| target (Hyperlink Display Target) | <p>Specifies a frame or window that a URL is displayed in. Default is no value. Allowed values are:</p> <table border="1" data-bbox="415 848 1472 1486"> <thead> <tr> <th>Value</th><th>Description</th></tr> </thead> <tbody> <tr> <td>&lt;targetname&gt;</td><td>String containing the name of the frame or window in which to load the document.</td></tr> <tr> <td>_blank</td><td>Specifies that the linked document is loaded into a new blank window. This window is not named.</td></tr> <tr> <td>_media</td><td>Specifies that the linked document is loaded into the browser's multimedia pane.</td></tr> <tr> <td>_parent</td><td>Specifies that the linked document is loaded into the immediate parent of the document containing the link.</td></tr> <tr> <td>_search</td><td>Specifies that the linked document is loaded into the browser's search pane.</td></tr> <tr> <td>_self</td><td>Specifies that the linked document is loaded into the window in which the link was clicked (the active window).</td></tr> <tr> <td>_top</td><td>Specifies that the linked document is loaded into the topmost window.</td></tr> </tbody> </table> <p>[Example:</p> <pre> &lt;v:shape ...   href="http://www.openxmlformats.org"   target="_self" ... &gt; &lt;/v:shape&gt; </pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string</p> | Value | Description | <targetname> | String containing the name of the frame or window in which to load the document. | _blank | Specifies that the linked document is loaded into a new blank window. This window is not named. | _media | Specifies that the linked document is loaded into the browser's multimedia pane. | _parent | Specifies that the linked document is loaded into the immediate parent of the document containing the link. | _search | Specifies that the linked document is loaded into the browser's search pane. | _self | Specifies that the linked document is loaded into the window in which the link was clicked (the active window). | _top | Specifies that the linked document is loaded into the topmost window. |
| Value                             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| <targetname>                      | String containing the name of the frame or window in which to load the document.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| _blank                            | Specifies that the linked document is loaded into a new blank window. This window is not named.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| _media                            | Specifies that the linked document is loaded into the browser's multimedia pane.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| _parent                           | Specifies that the linked document is loaded into the immediate parent of the document containing the link.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| _search                           | Specifies that the linked document is loaded into the browser's search pane.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| _self                             | Specifies that the linked document is loaded into the window in which the link was clicked (the active window).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| _top                              | Specifies that the linked document is loaded into the topmost window.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |



| Attributes                                                                                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                 | datatype.                                                                                                                                                                                                                                                                                                                                                                                                                            |
| title (Shape Title)                                                                             | <p>Specifies the text displayed when the mouse pointer moves over the shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... title="tooltip" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                     |
| to (Curve Ending Point)                                                                         | <p>Specifies the ending point of the line in the coordinate space of the parent element. Default is "30,20". If the parent is not a VML element, the default unit is a pixel. Allowed units are in, cm, mm, pt, pc and px.</p> <p>[Example:</p> <pre>&lt;v:curve ... to="40,40" ... &gt; &lt;/v:curve&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| userdrawn (Exists In Master Slide)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies whether the user has added the shape to a master slide. Default is false. Used by PresentationML.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:userdrawn="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                               |
| userhidden (Hide Script Anchors)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office   | <p>Specifies whether a script anchor is hidden. Default is false. If true, script anchors stay hidden even if the shape is otherwise visible. A script anchor is the visual representation of a script that when displayed in an application.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:userhidden="true" ... &gt;</pre>                                                                                                           |

| Attributes                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                     | <p><code>&lt;/v:shape&gt;</code></p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                      |
| wrapcoords (Shape Bounding Polygon) | <p>Specifies the bounding polygon that surrounds a shape. This is specified using a comma-delimited list of x and y coordinates: "x1,y1,x2,y2,x3,y3,..." This is used when text is tightly wrapped around a shape. Default is no value until the mso-wrap-mode style attribute is set to tight or through.</p> <p>[Example:</p> <pre> &lt;v:shape ...   wrapcoords="0,0 0,200, 200,200, 200,0" ... &gt; &lt;/v:shape&gt; </pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |

[Note: The W3C XML Schema definition of this element's content model ([CT\\_Curve](#)) is located in §A.6.1. *end note]*

#### 19.1.2.4 f (Single Formula)

This element defines a single value as the result of the evaluation of an expression. The expression is defined by the eqn attribute and has the general form of an operation followed by up to three arguments, which consist of adjustment values (see the adj attribute of the shape element (§19.1.2.19)), the results of earlier formulas, fixed numbers or pre-defined values. Each f value is referenced using "@" followed by a number corresponding to the zero-based index for that value in the list of f elements. [Example: For example, the value of the second f element is referenced as "@2". *end example]*

[Example: The following defines a blue arrow pointing to the right:

```

<v:shape coordsize="21600,21600" adj="18000,5400,10800"
  path="m @0,0 l @0,@1 0,@1 0,@3 @0,@3 @0,21600 21600,10800 x e"
  style='left:50pt;top:50pt;width:90pt;height:30pt'
  fillcolor="#4f81bd" strokecolor="#4f81bd" strokeweight="2pt">
<v:formulas>
  <v:f eqn="val #0"/>
  <v:f eqn="val #1"/>
  <v:f eqn="val #2"/>

```

```

<v:f eqn="sum height 0 #1"/>
<v:f eqn="sum #2 0 #1"/>
<v:f eqn="sum width 0 #0"/>
<v:f eqn="prod @5 @4 #2"/>
<v:f eqn="sum width 0 @6"/>
</v:formulas>
</v:shape>

```

The shape looks like this:



*end example]*

| Parent Elements      |
|----------------------|
| formulas (§19.1.2.6) |

| Attributes     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           |             |     |                                         |     |                                                   |         |                                                               |     |                                                       |     |                              |     |                                                |     |                                                 |    |                                                    |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-----|-----------------------------------------|-----|---------------------------------------------------|---------|---------------------------------------------------------------|-----|-------------------------------------------------------|-----|------------------------------|-----|------------------------------------------------|-----|-------------------------------------------------|----|----------------------------------------------------|
| eqn (Equation) | <p>Specifies a single formula, which consists of a named operation followed by up to three parameters, typically described as v, P1 and P2. Up to 128 formulas can be specified. These operations are defined (calculation accuracy is discussed below):</p> <table> <tr> <th>Operation</th><th>Description</th></tr> <tr> <td>val</td><td>v<br/>Returns the supplied value. Exact.</td></tr> <tr> <td>sum</td><td><math>v + P1 - P2</math><br/>Addition and subtraction. Exact.</td></tr> <tr> <td>product</td><td><math>v \times P1 / P2</math><br/>Multiplication and division. Rounds up.</td></tr> <tr> <td>mid</td><td><math>(v + P1) / 2</math><br/>Simple average. Rounds toward zero.</td></tr> <tr> <td>abs</td><td> v <br/>Absolute value. Exact.</td></tr> <tr> <td>min</td><td>min(v, P1)<br/>The lesser of two values. Exact.</td></tr> <tr> <td>max</td><td>max(v, P1)<br/>The greater of two values. Exact.</td></tr> <tr> <td>if</td><td><math>v &gt; 0 ? P1 : P2</math><br/>Conditional selection. Exact.</td></tr> </table> | Operation | Description | val | v<br>Returns the supplied value. Exact. | sum | $v + P1 - P2$<br>Addition and subtraction. Exact. | product | $v \times P1 / P2$<br>Multiplication and division. Rounds up. | mid | $(v + P1) / 2$<br>Simple average. Rounds toward zero. | abs | v <br>Absolute value. Exact. | min | min(v, P1)<br>The lesser of two values. Exact. | max | max(v, P1)<br>The greater of two values. Exact. | if | $v > 0 ? P1 : P2$<br>Conditional selection. Exact. |
| Operation      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           |             |     |                                         |     |                                                   |         |                                                               |     |                                                       |     |                              |     |                                                |     |                                                 |    |                                                    |
| val            | v<br>Returns the supplied value. Exact.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |             |     |                                         |     |                                                   |         |                                                               |     |                                                       |     |                              |     |                                                |     |                                                 |    |                                                    |
| sum            | $v + P1 - P2$<br>Addition and subtraction. Exact.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |             |     |                                         |     |                                                   |         |                                                               |     |                                                       |     |                              |     |                                                |     |                                                 |    |                                                    |
| product        | $v \times P1 / P2$<br>Multiplication and division. Rounds up.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |             |     |                                         |     |                                                   |         |                                                               |     |                                                       |     |                              |     |                                                |     |                                                 |    |                                                    |
| mid            | $(v + P1) / 2$<br>Simple average. Rounds toward zero.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |             |     |                                         |     |                                                   |         |                                                               |     |                                                       |     |                              |     |                                                |     |                                                 |    |                                                    |
| abs            | v <br>Absolute value. Exact.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |             |     |                                         |     |                                                   |         |                                                               |     |                                                       |     |                              |     |                                                |     |                                                 |    |                                                    |
| min            | min(v, P1)<br>The lesser of two values. Exact.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |             |     |                                         |     |                                                   |         |                                                               |     |                                                       |     |                              |     |                                                |     |                                                 |    |                                                    |
| max            | max(v, P1)<br>The greater of two values. Exact.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |             |     |                                         |     |                                                   |         |                                                               |     |                                                       |     |                              |     |                                                |     |                                                 |    |                                                    |
| if             | $v > 0 ? P1 : P2$<br>Conditional selection. Exact.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |             |     |                                         |     |                                                   |         |                                                               |     |                                                       |     |                              |     |                                                |     |                                                 |    |                                                    |

| Attributes | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                      |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | mod                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | $\sqrt{v^2 + P1^2 + P2^2}$<br>Modulus. Inexact.                                                                                                                                      |
|            | atan2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | atan2(P1, v)<br>Trigonometric arc tangent of a quotient. Result is in "fd" units or fractional degrees - degrees $\times 2^{16}$ . Inexact.                                          |
|            | sin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | $v \times \sin(P1)$<br>Sine. Argument is in "fd" units or fractional degrees - degrees $\times 2^{16}$ . Inexact.                                                                    |
|            | cos                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | $v \times \cos(P1)$<br>Cosine. Argument is in "fd" units or fractional degrees - degrees $\times 2^{16}$ . Inexact.                                                                  |
|            | cosatan2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | $v \times \cos(\text{atan2}(P2, P1))$<br>Preserves full accuracy in the intermediate calculation. Inexact.                                                                           |
|            | sinatan2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | $v \times \sin(\text{atan2}(P2, P1))$<br>Preserves full accuracy in the intermediate calculation. Inexact.                                                                           |
|            | sqrt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | $\sqrt{v}$<br>Square root. Result is positive and rounds down. Inexact.                                                                                                              |
|            | sumangle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | $v + P1 \times 2^{16} + P2 \times 2^{16}$<br>Adds an existing angle in fd units (v) to two other angles specified in degrees. P1 and P2 are scaled by $2^{16}$ . Exact.              |
|            | ellipse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | $P2 \sqrt{1 - \left(\frac{v}{P1}\right)^2}$<br>The eccentricity formula for an ellipse, where v is length of the semiminor axis and P1 is the length of the semimajor axis. Inexact. |
|            | tan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | $v \times \tan(P1)$<br>Tangent. Argument is in "fd" units or fractional degrees - degrees $\times 2^{16}$ . Inexact.                                                                 |
|            | <p>Formulas are evaluated to full precision, but the result is always a 32-bit integer. Formula authors should avoid formulas which are discontinuous - not only are many of the trigonometric operations inexact, the transformations within the coordinate spaces are also inexact. This can mean that a set of formulas which is discontinuous evaluates to give very different path values with the same input on two different systems.</p> <p>When an operation is marked as exact then a conforming implementation shall always generate the correct arithmetic answer (unless the calculations overflow internally). The</p> |                                                                                                                                                                                      |

| Attributes     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |    |                                                                                                                                                 |    |                                                           |       |                                               |        |                                                |         |                                                                                            |         |                                                                                            |       |                                                                             |       |                                                                             |           |                                                                                                                                |         |                                                                                                                           |                |                                                                                                                              |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|----|-------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------------------------------------------------------|-------|-----------------------------------------------|--------|------------------------------------------------|---------|--------------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------|
|                | <p>product operation is required to round to the nearest integer. If the result is exactly 0.5 then it shall be rounded up to the next numerically greater integer. The mid operation is required to round towards 0.</p> <p>All other operations are inexact, but the implementation shall round non-integral values down (towards -infinity) and should perform internal calculations with this form of rounding.</p> <p>The arguments used in the evaluation of a formula are normally either fixed numbers, the result of the evaluation of a previous formula or an adjust value - the value of the corresponding entry in the shape adj attribute. Fixed numbers shall be positive integral values in the range 0 to 65535 (unsigned 16-bit numbers). The following named values are defined:</p> <table border="1" data-bbox="415 743 1206 1879"> <thead> <tr> <th>Value</th><th>Description</th></tr> </thead> <tbody> <tr> <td>@n</td><td>The value of formula n, where n is the zero-based index of the formula in the list of formulas. n shall be less than the current formula index.</td></tr> <tr> <td>#n</td><td>Adjustment (adj) value n. n shall be in the range 0 to 7.</td></tr> <tr> <td>width</td><td>The width defined by the coordsize attribute.</td></tr> <tr> <td>height</td><td>The height defined by the coordsize attribute.</td></tr> <tr> <td>xcenter</td><td>The x ordinate of the center of the coordinate space defined by coordorigin and coordsize.</td></tr> <tr> <td>ycenter</td><td>The y ordinate of the center of the coordinate space defined by coordorigin and coordsize.</td></tr> <tr> <td>xlimo</td><td>The x value of the limo attribute (see also the path element (§19.1.2.14)).</td></tr> <tr> <td>ylimo</td><td>The y value of the limo attribute (see also the path element (§19.1.2.14)).</td></tr> <tr> <td>hasstroke</td><td>1 if the shape has a stroke operation, 0 if it does not, as determined by the on attribute of the stroke element (§19.1.2.21).</td></tr> <tr> <td>hasfill</td><td>1 if the shape has a fill operation, 0 if it does not, as determined by the on attribute of the fill element (§19.1.2.5).</td></tr> <tr> <td>pixellinewidth</td><td>The line width in output device pixels. This is used to outset lines from the edge of a rectangle on the assumption that the</td></tr> </tbody> </table> | Value | Description | @n | The value of formula n, where n is the zero-based index of the formula in the list of formulas. n shall be less than the current formula index. | #n | Adjustment (adj) value n. n shall be in the range 0 to 7. | width | The width defined by the coordsize attribute. | height | The height defined by the coordsize attribute. | xcenter | The x ordinate of the center of the coordinate space defined by coordorigin and coordsize. | ycenter | The y ordinate of the center of the coordinate space defined by coordorigin and coordsize. | xlimo | The x value of the limo attribute (see also the path element (§19.1.2.14)). | ylimo | The y value of the limo attribute (see also the path element (§19.1.2.14)). | hasstroke | 1 if the shape has a stroke operation, 0 if it does not, as determined by the on attribute of the stroke element (§19.1.2.21). | hasfill | 1 if the shape has a fill operation, 0 if it does not, as determined by the on attribute of the fill element (§19.1.2.5). | pixellinewidth | The line width in output device pixels. This is used to outset lines from the edge of a rectangle on the assumption that the |
| Value          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |    |                                                                                                                                                 |    |                                                           |       |                                               |        |                                                |         |                                                                                            |         |                                                                                            |       |                                                                             |       |                                                                             |           |                                                                                                                                |         |                                                                                                                           |                |                                                                                                                              |
| @n             | The value of formula n, where n is the zero-based index of the formula in the list of formulas. n shall be less than the current formula index.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |    |                                                                                                                                                 |    |                                                           |       |                                               |        |                                                |         |                                                                                            |         |                                                                                            |       |                                                                             |       |                                                                             |           |                                                                                                                                |         |                                                                                                                           |                |                                                                                                                              |
| #n             | Adjustment (adj) value n. n shall be in the range 0 to 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |             |    |                                                                                                                                                 |    |                                                           |       |                                               |        |                                                |         |                                                                                            |         |                                                                                            |       |                                                                             |       |                                                                             |           |                                                                                                                                |         |                                                                                                                           |                |                                                                                                                              |
| width          | The width defined by the coordsize attribute.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |             |    |                                                                                                                                                 |    |                                                           |       |                                               |        |                                                |         |                                                                                            |         |                                                                                            |       |                                                                             |       |                                                                             |           |                                                                                                                                |         |                                                                                                                           |                |                                                                                                                              |
| height         | The height defined by the coordsize attribute.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |             |    |                                                                                                                                                 |    |                                                           |       |                                               |        |                                                |         |                                                                                            |         |                                                                                            |       |                                                                             |       |                                                                             |           |                                                                                                                                |         |                                                                                                                           |                |                                                                                                                              |
| xcenter        | The x ordinate of the center of the coordinate space defined by coordorigin and coordsize.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |             |    |                                                                                                                                                 |    |                                                           |       |                                               |        |                                                |         |                                                                                            |         |                                                                                            |       |                                                                             |       |                                                                             |           |                                                                                                                                |         |                                                                                                                           |                |                                                                                                                              |
| ycenter        | The y ordinate of the center of the coordinate space defined by coordorigin and coordsize.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |             |    |                                                                                                                                                 |    |                                                           |       |                                               |        |                                                |         |                                                                                            |         |                                                                                            |       |                                                                             |       |                                                                             |           |                                                                                                                                |         |                                                                                                                           |                |                                                                                                                              |
| xlimo          | The x value of the limo attribute (see also the path element (§19.1.2.14)).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |    |                                                                                                                                                 |    |                                                           |       |                                               |        |                                                |         |                                                                                            |         |                                                                                            |       |                                                                             |       |                                                                             |           |                                                                                                                                |         |                                                                                                                           |                |                                                                                                                              |
| ylimo          | The y value of the limo attribute (see also the path element (§19.1.2.14)).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |    |                                                                                                                                                 |    |                                                           |       |                                               |        |                                                |         |                                                                                            |         |                                                                                            |       |                                                                             |       |                                                                             |           |                                                                                                                                |         |                                                                                                                           |                |                                                                                                                              |
| hasstroke      | 1 if the shape has a stroke operation, 0 if it does not, as determined by the on attribute of the stroke element (§19.1.2.21).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |             |    |                                                                                                                                                 |    |                                                           |       |                                               |        |                                                |         |                                                                                            |         |                                                                                            |       |                                                                             |       |                                                                             |           |                                                                                                                                |         |                                                                                                                           |                |                                                                                                                              |
| hasfill        | 1 if the shape has a fill operation, 0 if it does not, as determined by the on attribute of the fill element (§19.1.2.5).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |             |    |                                                                                                                                                 |    |                                                           |       |                                               |        |                                                |         |                                                                                            |         |                                                                                            |       |                                                                             |       |                                                                             |           |                                                                                                                                |         |                                                                                                                           |                |                                                                                                                              |
| pixellinewidth | The line width in output device pixels. This is used to outset lines from the edge of a rectangle on the assumption that the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |             |    |                                                                                                                                                 |    |                                                           |       |                                               |        |                                                |         |                                                                                            |         |                                                                                            |       |                                                                             |       |                                                                             |           |                                                                                                                                |         |                                                                                                                           |                |                                                                                                                              |

| Attributes                                                                                                                                                                                                                                                                      | Description |                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                 |             | implementation draws to lower right pixel in preference to the upper left pixel when a line is on a pixel boundary. |
|                                                                                                                                                                                                                                                                                 | pixelwidth  | The width of the shape in device pixels (i.e., the coordsize width transformed into device space).                  |
|                                                                                                                                                                                                                                                                                 | pixelheight | The height of the coordsize in device pixels.                                                                       |
|                                                                                                                                                                                                                                                                                 | emuwidth    | The width of the coordsize in EMUs.                                                                                 |
|                                                                                                                                                                                                                                                                                 | emuheight   | The height of the coordsize in EMUs.                                                                                |
|                                                                                                                                                                                                                                                                                 | emuwidth2   | Half the width of the coordsize in EMUs.                                                                            |
|                                                                                                                                                                                                                                                                                 | emuheight2  | Half the height of the coordsize in EMUs.                                                                           |
| <p>The EMU, or English Metric Unit, is the smallest unit of measure in VML and corresponds to 914400 EMU per inch or 12700 EMU per point.</p> <p>See above for an example.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |             |                                                                                                                     |

[Note: The W3C XML Schema definition of this element's content model (CT\_F) is located in §A.6.1. *end note*]

#### 19.1.2.5 fill (Shape Fill Properties)

This element specifies how the path should be filled if something beyond a solid color fill is desired. The attributes of the fill element can be used to describe a powerful set of image- or gradient-based fill patterns. Extensions to the VML fill definition are encoded as sub-elements of fill.

| Parent Elements                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arc (§19.1.2.1); background (Part 1, §17.2.1); background (§19.1.2.2); curve (§19.1.2.3); group (§19.1.2.7); image (§19.1.2.10); line (§19.1.2.12); object (Part 1, §17.3.3.19); oval (§19.1.2.13); pict (§14.2.2.2); pict (§14.5.1); polyline (§19.1.2.15); rect (§19.1.2.16); roundrect (§19.1.2.17); shape (§19.1.2.19); shapedefaults (§19.2.2.28); shapetype (§19.1.2.20) |

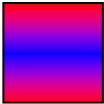
| Child Elements                        | Subclause  |
|---------------------------------------|------------|
| fill (Shape Fill Extended Properties) | §19.2.2.13 |

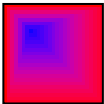
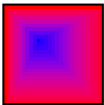
| Attributes                                                                                                               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>alignshape (Align Image With Shape)</b>                                                                               | <p>Specifies whether an image aligns with the shape. Default is true.</p> <p>[Example: The image displayed in the shape is not rotated even though the shape is rotated 30 degrees:</p> <pre>&lt;v:shape coordorigin="0,0"   coordsize="200,200"   style="top:1;left:1;width:50;   height:50;rotation:30"   path="m 1,1 l 1,200, 200,200, 200,1 x e"&gt;   &lt;v:fill alignshape="false" type="frame"     src="myimage.gif"&gt;   &lt;/v:fill&gt; &lt;/v:shape&gt;</pre> <p>Applied to a simple square the fill looks like this:</p>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <b>althref (Alternate Image Reference Location)</b><br><br>Namespace:<br>urn:schemas-<br>microsoft-<br>com:office:office | <p>Defines an alternate reference for an image in Macintosh PICT format.</p> <p>[Example:</p> <pre>&lt;v:fill ... althref="myimage.pcz" ... &gt; &lt;/v:fill&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>angle (Gradient Angle)</b>                                                                                            | <p>Specifies the direction of a gradient. The vector of a gradient is perpendicular to the vector of the blend direction from one color to another. The default value is zero degrees, which is a horizontal vector from left to right. Positive angles rotate the gradient in a counter-clockwise direction.</p> <p>[Example: The fill is composed of a 45-degree gradient of two colors. Blue is in the top left corner and red is in the bottom right corner.</p> <pre>&lt;v:fill type="gradient" color="red"</pre>                                                                                                                                                                                                                            |

| Attributes                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             | <pre>color2="blue" angle="45"&gt; &lt;/v:fill&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema decimal datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| aspect (Image Aspect Ratio) | <p>Specifies how the fill image aspect ratio is preserved. Default is ignore. Allowed values are:</p> <ul style="list-style-type: none"> <li>• ignore - Ignore aspect ratio.</li> <li>• atleast - At least as large as defined by the size attribute.</li> <li>• atmost - No larger than that defined by the size attribute.</li> </ul> <p>In each case, the size attribute is adjusted to preserve the aspect ratio of the image.</p> <p>[<i>Example:</i> The image that makes up the fill is no larger than 20 points by 20 points, limiting the size of the tiles inside the shape.</p> <pre>&lt;v:fill type="tile" aspect="atmost" size="20pt,20pt" src="myimage.gif"&gt; &lt;/v:fill&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ImageAspect simple type (§19.1.3.5).</p> |
| color (Primary Color)       | <p>Specifies the main fill color; functions the same as the fillcolor attribute of the shape element (§19.1.2.19). This attribute overrides the shape's fillcolor. Default is white. Colors are typically specified as either a named color, such as red, or six hexadecimal digits representing the red, green and blue values of the color, such as #00FF30. Full details are specified in the simple type description.</p> <p>[<i>Example:</i> The shape is blue:</p> <pre>&lt;v:shape ... fillcolor="red" ... &gt; &lt;v:fill color="blue"/&gt; &lt;/v:shape&gt;</pre>                                                                                                                                                                                                                                                                                                                                                  |



| Attributes                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                     | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <p>color2 (Secondary Color)</p>     | <p>Specifies the secondary fill color, used when a fill type is a pattern or a gradient. Default is white. Colors are typically specified as either a named color, such as red, or six hexadecimal digits representing the red, green and blue values of the color, such as #00FF30. Full details are specified in the simple type description.</p> <p>[Example: The shape is filled with a horizontal gradient with red at the bottom and blue on top:</p> <pre>&lt;v:fill type="gradient"   color="red" color2="blue"&gt; &lt;/v:fill&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p>                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <p>colors (Intermediate Colors)</p> | <p>Specifies an array of comma-separated percentage-color pairs that define intermediate colors and their positions in a gradient fill. The primary color, specified either by the fillcolor attribute of the shape element (§19.1.2.19) or the color attribute of the fill element (§19.1.2.5), is used at the 0% endpoint. The secondary color, specified by the color2 attribute of the fill element (§19.1.2.5), is used at the 100% endpoint. The numeric values can also be specified in 1/65536ths if a trailing "f" is supplied. [Example: For example, a value of "52429f" represents 52429/65536 or 0.8. <i>end example]</i></p> <p>[Example: The shape is filled with a horizontal gradient colored, from bottom to top, red, yellow, green, blue:</p> <pre>&lt;v:fill type="gradient"   color="red" color2="blue"   colors="30% yellow,70% green"&gt; &lt;/v:fill&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |

| Attributes                                                                                                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>detectmouseclick<br/>(Detect Mouse Click)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether a mouse click is detected on the fill of a shape.</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <p>focus (Gradient Center)</p>                                                                                 | <p>Specifies the center starting position of a gradient. Values <a href="#">are in the</a> range 100% to -100%. Default is 0.</p> <p>A value of 100% or -100% reverses the direction of the gradient (in effect swapping color and color2). A value of 50% changes the gradient so that color is at both ends and color2 is in the middle. A value of -50% changes the gradient so that color2 is at both ends and color is in the middle.</p> <p>[Example: The shape is filled with a horizontal gradient with red at both ends and blue in the middle:</p> <pre>&lt;v:fill type="gradient"   color="red" color2="blue"   focus="50%"&gt; &lt;/v:fill&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype:</p> |
| <p>focusposition<br/>(Radial Gradient Center)</p>                                                              | <p>Specifies the position of the center rectangle of a radial gradient. The vector is a fraction of the width and height of the shape. The first is a percentage of the fill to the left edge; the second is a percentage of the fill to the top. Default is 0,0. To position a radial fill at the center of a shape, use a value of 50%,50%.</p> <p>[Example: The shape is filled with a rectangular gradient positioned in the top-left quadrant of the shape. The interior of the gradient is blue and the exterior is red:</p> <pre>&lt;v:fill type="gradientradial"   color="red" color2="blue"   focusposition="25%,25%"&gt; &lt;/v:fill&gt;</pre>                                                                                                                                                                                                                         |

| Attributes                                                                                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                              |  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| focussize (Radial Gradient Size)                                                             | <p>Specifies the size of the center rectangle of a radial gradient. The vector is a fraction of the width and height of the shape. The first is a percentage of the fill to the right edge; the second is a percentage of the fill to the bottom. Default is 0,0.</p> <p>A focussize value of 100%,100% and a focusposition of 0,0 makes color2 dominate the gradient completely. Small values of around 10%,10% are recommended for balanced gradients.</p> <p>[Example: The shape is filled with a rectangular gradient positioned in the top-left quadrant of the shape. The interior of the gradient is blue and the exterior is red. The red portion is wider on the bottom and right sides of the blue region. The pure blue region is 25% the width and 25% the height of the shape:</p> <pre>&lt;v:fill type="gradientradial"   color="red" color2="blue"   focussize="25%,25%"   focusposition="25%,25%"&gt; &lt;/v:fill&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <p>href (Hyperlink Target)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies the URL to the original image file. Used only if the picture has been linked and embedded. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:fill ... o:href="myimage.gif" ... &gt; &lt;/v:fill&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| Attributes                                                                                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                              | datatype.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p>id (Relationship to Part)</p> <p>Namespace:<br/>.../officeDocument/2006/relationships</p> | <p>Specifies the relationship ID of the relationship to the image used for this fill. The specified relationship shall be of type <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/image">http://schemas.openxmlformats.org/officeDocument/2006/relationships/image</a> or the document shall be considered non-conformant.</p> <p>[Example: The markup specifies the associated relationship part with relationship ID rId10 contains the corresponding relationship information for the fill:</p> <pre>&lt; ... r:id="rId10" /&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |
| <p>id (Unique Identifier)</p>                                                                | <p>Specifies a unique identifier that can be used to reference a VML object.</p> <p>Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... id="myShape" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                           |
| <p>method (Gradient Fill Method)</p>                                                         | <p>Specifies the method used to generate the transition from color to color2 in a gradient fill. Default is sigma.</p> <p>[Example:</p> <pre>&lt;v:fill type="gradient"   color="red" color2="blue" method="any"&gt; &lt;/v:fill&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_FillMethod simple type (§19.1.3.3).</p>                                                                                                                                                                                                                                                     |

| Attributes                                                                                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| on (Fill Toggle)                                                                                | <p>Specifies whether to fill the shape. Default is true. This attribute overrides the shape's fill attribute.</p> <p>[Example: The shape has a transparent fill:</p> <pre>&lt;v:shape ... fill="true" ... &gt;   &lt;v:fill color="red" on="false"&gt;     &lt;/v:fill&gt;   &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                     |
| opacity (Primary Color Opacity)                                                                 | <p>Specifies the opacity of the primary fill color. Default is 1.0. This numeric value can also be specified in 1/65536-ths if a trailing "f" is supplied. For example, a value of "52429f" represents 52429/65536 or 0.8.</p> <p>[Example: The red color is 25% opaque:</p> <pre>&lt;v:fill type="gradient" color="red"   color2="blue" opacity=".25"&gt;   &lt;/v:fill&gt;</pre> <div data-bbox="451 1098 779 1318">  <p>opacity="1"</p>  <p>opacity=".25"</p> </div> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| opacity2 (Secondary Color Opacity)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies the opacity of the secondary fill color. Default is 1.0. This numeric value can also be specified in 1/65536-ths if a trailing "f" is supplied. [Example: For example, a value of "52429f" represents 52429/65536 or 0.8. end example]</p> <p>[Example: The blue color is 25% opaque:</p> <pre>&lt;v:fill type="gradient" color="red"   color2="blue" o:opacity2=".25"&gt;   &lt;/v:fill&gt;</pre>                                                                                                                                                                                                                                                                                                                                                    |

| Attributes                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                |  <p>opacity2="1"</p> <p>opacity2=".25"</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| origin (Fill Image Origin)     | <p>Specifies the position of the origin of a fill image as a point relative to the top left corner of the image. The vector is a fraction of the width and height of the image. Default is the center of the image. These numeric values can also be specified in 1/65536-ths if a trailing "f" is supplied. [Example: For example, a value of "52429f" represents 52429/65536 or 0.8. <i>end example]</i></p> <p>[Example: The origin of the image is 25% to the right and 25% above the image's top left corner:</p> <pre>&lt;v:fill type="tile" src="myimage.gif"   origin="0.25,-0.25"&gt; &lt;/v:fill&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| position (Fill Image Position) | <p>Specifies the position of the origin of a fill image as a point within its containing shape. The vector is a fraction of the width and height of the shape. These numeric values can also be specified in 1/65536-ths if a trailing "f" is supplied. For example, a value of "52429f" represents 52429/65536 or 0.8.</p> <p>[Example: The origin of the image is positioned 25% to the right of the left edge of the shape and 25% down from the shape's top:</p> <pre>&lt;v:fill type="tile" src="myimage.gif"   position="0.25,0.25"&gt; &lt;/v:fill&gt;</pre>                                                                                                                                                                                                                                                                  |

| Attributes                                                                                | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                           |  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| recolor (Recolor Fill as Picture)                                                         | <p>Specifies that the fill uses an image. Default is false.</p> <p>[Example:</p> <pre>&lt;v:fill r:id="rId4" o:title="MyPic" recolor="true" type="frame"&gt; &lt;/v:fill&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                             |
| relid (Relationship to Part)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies the relationship ID of the relationship to the image. The specified relationship shall be of type <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/image">http://schemas.openxmlformats.org/officeDocument/2006/relationships/image</a> or the document shall be considered non-conformant.</p> <p>[Example: The markup specifies the associated relationship part with relationship ID rId10 contains the corresponding relationship information:</p> <pre>&lt;v:fill ... o:relid="rId10" ...&gt; &lt;/v:fill&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |
| rotate (Rotate Fill with Shape)                                                           | <p>Specifies whether the fill is rotated with the shape. Default is false.</p> <p>[Example: The gradient is rotated with the shape:</p> <pre>&lt;v:fill color2="white" focus="100%" rotate="true" type="gradient"&gt; &lt;/v:fill&gt;</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| Attributes                                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                               |  <p>rotate="true"</p>  <p>rotate="false"</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                  |
| size (Fill Image Size)                                        | <p>Specifies the size of the fill image. Default is the native image pixel size.</p> <p>[Example: The image is reduced in size disproportionately:</p> <pre>&lt;v:fill type="tile" src="myimage.gif"   size="25pt,15pt"&gt; &lt;/v:fill&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| src (Fill Image Source)                                       | <p>Specifies the URL specifying the fill image to use.</p> <p>[Example:</p> <pre>&lt;v:fill ... src="myimage.gif" ... &gt; &lt;/v:fill&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                      |
| title (Title)<br><br>Namespace:<br>urn:schemas-<br>microsoft- | <p>Specifies the title of an embedded fill image. This is typically set to the comment property of the image, which is often blank.</p> <p>[Example:</p>                                                                                                                                                                                                                                                                                                          |



| Attributes                                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                     |                                                                                          |                                                                                     |                                                                                           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| com:office:office                                                                   | <pre>&lt;v:fill ... o:title="alt text" ... &gt; &lt;/v:fill&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                     |                                                                                          |                                                                                     |                                                                                           |
| type (Fill Type)                                                                    | <p>Specifies the kind of fill. Default is solid. Allowed values are:</p> <ul style="list-style-type: none"> <li>• solid</li> <li>• gradient</li> <li>• gradientradial</li> <li>• tile</li> <li>• pattern</li> <li>• frame</li> </ul> <p>[Example: Applied to a simple square using the following fill element, the three gradient types look like this:</p> <pre>&lt;v:fill color="red" color2="blue"   type="solid"&gt; &lt;/v:fill&gt;</pre> <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;">type="solid"</div> </div> <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;">type="gradient"</div> </div> <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;">type="gradientradial"</div> </div> <p>Applied to a simple square using the following fill elements, the three image types look like this:</p> <table border="1" data-bbox="418 1577 1203 1879"> <tr> <td data-bbox="418 1577 573 1728">  </td><td data-bbox="573 1577 1203 1728"> <pre>&lt;v:fill src="myimage.gif"   type="tile" size="50%,50%"&gt; &lt;/v:fill&gt;</pre> </td></tr> <tr> <td data-bbox="418 1728 573 1879">  </td><td data-bbox="573 1728 1203 1879"> <pre>&lt;v:fill src="myimage.gif"   type="frame" size="50%,50%"&gt; &lt;/v:fill&gt;</pre> </td></tr> </table> |  | <pre>&lt;v:fill src="myimage.gif"   type="tile" size="50%,50%"&gt; &lt;/v:fill&gt;</pre> |  | <pre>&lt;v:fill src="myimage.gif"   type="frame" size="50%,50%"&gt; &lt;/v:fill&gt;</pre> |
|  | <pre>&lt;v:fill src="myimage.gif"   type="tile" size="50%,50%"&gt; &lt;/v:fill&gt;</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     |                                                                                          |                                                                                     |                                                                                           |
|  | <pre>&lt;v:fill src="myimage.gif"   type="frame" size="50%,50%"&gt; &lt;/v:fill&gt;</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                     |                                                                                          |                                                                                     |                                                                                           |

| Attributes | Description                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <div data-bbox="428 247 532 352" data-label="Image"> </div> <pre data-bbox="626 256 1057 386" data-label="Text"> &lt;v:fill src="myimage.gif"   color="red" color2="blue"   type="pattern"&gt; &lt;/v:fill&gt; </pre> <p data-bbox="415 436 574 464"><i>end example]</i></p> <p data-bbox="415 508 1365 569">The possible values for this attribute are defined by the ST_FillType simple type (§19.1.3.4).</p> |

[Note: The W3C XML Schema definition of this element's content model ([CT\\_Fill](#)) is located in §A.6.1. *end note*]

#### 19.1.2.6 formulas (Set of Formulas)

This element defines a set of formulas whose calculated values are referenced by other attributes. Each formula is contained in a child *f* element (§19.1.2.4).

| Parent Elements                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arc (§19.1.2.1); background (Part 1, §17.2.1); curve (§19.1.2.3); group (§19.1.2.7); image (§19.1.2.10); line (§19.1.2.12); object (Part 1, §17.3.3.19); oval (§19.1.2.13); pict (§14.2.2.2); pict (§14.5.1); polyline (§19.1.2.15); rect (§19.1.2.16); roundrect (§19.1.2.17); shape (§19.1.2.19); shapetype (§19.1.2.20) |

| Child Elements     | Subclause |
|--------------------|-----------|
| f (Single Formula) | §19.1.2.4 |

[Note: The W3C XML Schema definition of this element's content model ([CT\\_Formulas](#)) is located in §A.6.1. *end note*]

#### 19.1.2.7 group (Shape Group)

This element is used to collect shapes and groups so they can be positioned and transformed as a single unit. A group contains group, shapetype, shape, pre-defined shape - arc, curve, image, line, oval, polyline, rect, roundrect - and lock elements.

[Example: The following example defines a few basic parts of a flying saucer graphic. The group consists of five shapes. Each shape's position is determined within the coordinate space of the group, which is defined by the group's attributes.

```

<v:group id="saucer"
  style='position:relative;left:200;top:200;width:50;height:50'
  coordorigin="0,0" coordsize="6000,6000">
  <v:shape id="body"

```

```

style='position:relative;left:234.75pt;top:208.875pt;
width:235.25pt;height:128.875pt' coordsize="3765,2060"
path="m1285,2511126,469,580,1009,,1285,25,1412,93,1547,194,1673,
1017,2026,2312,2060,3209,1756,3765,1388,3278,680,3059,319,2976,,
1285,251,1285,251xe"
fillcolor="#bcbcd6" stroked="f">
<v:path arrowok="t"/>
</v:shape>
<v:shape id="canopy"
style='position:relative;left:314.625pt;top:140.5pt;
width:104pt;height:102pt' coordsize="1663,1633"
path="m0,13551177,1498,353,1582,840,1633,1378,1498,1663,1295,
1545,456,1260,10,1025,,656,260,253,874,,1355,,1355xe"
fillcolor="#99ebff" stroked="f">
<v:path arrowok="t"/>
</v:shape>
<v:shape id="light1"
style='position:relative;left:408.625pt;top:268.75pt;
width:24.25pt;height:27.375pt' coordsize="388,437"
path="m209,0134,101,,302,125,437,329,327,388,152,209,,209,0xe"
fillcolor="#fff27f" stroked="f">
<v:path arrowok="t"/>
</v:shape>
<v:shape id="light2"
style='position:relative;left:356.625pt;top:279.25pt;
width:28.875pt;height:30pt' coordsize="462,479"
path="m135,010,186,59,422,344,479,462,228,135,,135,0xe"
fillcolor="#fff27f" stroked="f">
<v:path arrowok="t"/>
</v:shape>
<v:shape id="light3"
style='position:relative;left:302.625pt;top:274pt;
width:23pt;height:23.625pt' coordsize="369,378"
path="m0,591226,,369,186,243,378,32,363,,59,,59xe"
fillcolor="#fff27f" stroked="f">
<v:path arrowok="t"/>
</v:shape>
</v:group>

```



*end example]*

| Parent Elements                                                                                                |
|----------------------------------------------------------------------------------------------------------------|
| background (Part 1, §17.2.1); group (§19.1.2.7); object (Part 1, §17.3.3.19); pict (§14.2.2.2); pict (§14.5.1) |

| Child Elements                         | Subclause  |
|----------------------------------------|------------|
| anchorlock (Anchor Location Is Locked) | §19.3.2.1  |
| arc (Arc Segment)                      | §19.1.2.1  |
| borderbottom (Bottom Border)           | §19.3.2.2  |
| borderleft (Left Border)               | §19.3.2.3  |
| borderright (Right Border)             | §19.3.2.4  |
| bordertop (Top Border)                 | §19.3.2.5  |
| callout (Callout)                      | §19.2.2.2  |
| ClientData (Attached Object Data)      | §19.4.2.12 |
| clippath (Shape Clipping Path)         | §19.2.2.3  |
| curve (Bezier Curve)                   | §19.1.2.3  |
| diagram (VML Diagram)                  | §19.2.2.8  |
| extrusion (3D Extrusion)               | §19.2.2.11 |
| fill (Shape Fill Properties)           | §19.1.2.5  |
| formulas (Set of Formulas)             | §19.1.2.6  |
| group (Shape Group)                    | §19.1.2.7  |
| handles (Set of Handles)               | §19.1.2.9  |
| image (Image File)                     | §19.1.2.10 |
| imagedata (Image Data)                 | §19.1.2.11 |
| line (Line)                            | §19.1.2.12 |
| lock (Shape Protections)               | §19.2.2.18 |
| oval (Oval)                            | §19.1.2.13 |
| path (Shape Path)                      | §19.1.2.14 |
| polyline (Multiple Path Line)          | §19.1.2.15 |
| rect (Rectangle)                       | §19.1.2.16 |
| roundrect (Rounded Rectangle)          | §19.1.2.17 |
| shadow (Shadow Effect)                 | §19.1.2.18 |
| shape (Shape Definition)               | §19.1.2.19 |
| shapetype (Shape Template)             | §19.1.2.20 |
| signatureline (Digital Signature Line) | §19.2.2.30 |
| skew (Skew Transform)                  | §19.2.2.31 |
| stroke (Line Stroke Settings)          | §19.1.2.21 |

| Child Elements              | Subclause  |
|-----------------------------|------------|
| textbox (Text Box)          | §19.1.2.22 |
| textdata (VML Diagram Text) | §19.5.2.2  |
| textpath (Text Layout Path) | §19.1.2.23 |
| wrap (Text Wrapping)        | §19.3.2.6  |

| Attributes                                                                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>allowincell (Allow in Table Cell)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>  | <p>Specifies whether a shape can be placed in a table. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:allowincell="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                  |
| <p>allowoverlap (Allow Shape Overlap)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether a shape can overlap another shape. Default is true. If false, the shape shifts left or right so as not to overlap another shape, similar to the behavior of the HTML float attribute.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:allowoverlap="false" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                              |
| <p>alt (Alternate Text)</p>                                                                             | <p>Specifies alternative text describing the graphical object. This text should provide a brief description of the shape for use by accessibility tools. Default is no value.</p> <p>[Example: The alt text describes the basic shape:</p> <pre>&lt;v:shape ... fillcolor="red" alt="Red rectangle"&gt; &lt;/v:shape&gt;</pre> <p>The alt text describes the contents of a shape displaying an image:</p> <pre>&lt;v:shape ... alt="Picture of a sunset"&gt; &lt;/v:shape&gt;</pre> |

| Attributes                                                                                                              | Description                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                         | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                   |
| <p><b>borderbottomcolor</b><br/>(Bottom Border Color)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies the bottom border color of an inline shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:borderbottomcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <p><b>borderleftcolor</b><br/>(Border Left Color)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>     | <p>Specifies the left border color of an inline shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:borderleftcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>     |
| <p><b>borderrightcolor</b><br/>(Border Right Color)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>   | <p>Specifies the right border color of an inline shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:borderrightcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>   |
| <p><b>bordertopcolor</b><br/>(Border Top Color)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>       | <p>Specifies the top border color of an inline shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:bordertopcolor="red" ... &gt; &lt;/v:shape&gt;</pre>                                                                                                                                   |

| Attributes                                                                                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                      | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                 |
| <p>bullet (Graphical Bullet)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>       | <p>Specifies whether the shape is a graphical bullet. Default is <i>false</i>.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:bullet="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                  |
| <p>button (Button Behavior Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether a shape exhibits button press behavior on click. Default is <i>false</i>.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:button="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                  |
| <p>class (CSS Reference)</p>                                                                         | <p>Specifies a reference to the definition of a CSS style. Default is no value.</p> <p>[Example: The snippets below are equivalent:</p> <pre>... .narrowstyle {width:50;height:100} ... &lt;v:shape ... class="narrowstyle"   style="top:1;left:1"&gt; &lt;/v:shape&gt;</pre> <pre>&lt;v:shape ... style="top:1;left:1;   width:50;height:100"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string</p> |

| Attributes                                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                 | datatype.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>coordorigin</b><br>(Coordinate Space Origin) | <p>Specifies the coordinate of the top left corner of the shape's coordinate space. This determines the position of the (0,0) coordinate space origin within the shape's bounding box. Default is "0,0", which places the (0,0) origin at the top left corner of the bounding box.</p> <p>This affects shape properties that specify coordinate positions, such as the <code>path</code> attribute. Thus a path can be defined against a generic (0,0) origin and the <code>coordorigin</code> value translates the entire path within the shape's bounding space.</p> <p>[<i>Example:</i> The horizontal and vertical coordinate space ranges from -100 to +100 because the coordinate space (<code>coordsize</code>) is 200 by 200 and the top left coordinate is (-100,-100). The (0,0) origin lies at the center of the shape's bounding box, as evidenced by the position of the shape's path within the coordinate space:</p> <pre>&lt;v:shape ... coordsize="200,200"   coordorigin="-100,-100"   path="m 0,0 l 0,50, 50,50, 50,0 x e"&gt; &lt;/v:shape&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <b>coordsize</b><br>(Coordinate Space Size)     | <p>Specifies the size of the shape's coordinate space in coordinate units. Default is "1000,1000".</p> <p>The physical size of a coordinate unit length is determined by both the size of the coordinate space (<code>coordsize</code>) and the size of the shape (style width and height). The <code>coordsize</code> attribute defines the number of horizontal and vertical subdivisions into which the shape's bounding box is divided. The combination of <code>coordsize</code> and style width/height effective scales the shape anisotropically.</p> <p>[<i>Example:</i> The path is 50 units wide and tall, which is 25% of the size of the coordinate space:</p> <pre>&lt;v:shape ... coordsize="200,200"   coordorigin="-100,-100"   path="m 0,0 l 0,50, 50,50, 50,0 x e"&gt; &lt;/v:shape&gt;</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |



| Attributes                                                                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                             |  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                   |
| <b>dgmlayout</b><br>(Diagram Node Layout Identifier)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office           | <p>Specifies the kind of automatic layout to apply to the diagram node. This is only meaningful if the shape is a node in an organization chart, which is denoted by the orgchart value of the editas attribute of the group element.</p> <p>[Example:</p> <pre>&lt;v:shape ... dgmlayout="1"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_DiagramLayout simple type (§19.2.3.10).</p>                                 |
| <b>dgmlayoutmru</b><br>(Diagram Node Recent Layout Identifier)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies the kind of automatic layout most recently used on the child elements of the diagram node. This is only meaningful if the shape is a node in an organization chart, which is denoted by the orgchart value of the editas attribute of the group element.</p> <p>[Example:</p> <pre>&lt;v:shape ... dgmlayout="1"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_DiagramLayout simple type (§19.2.3.10).</p> |
| <b>dgmnodekind</b><br>(Diagram Node Identifier)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office                | <p>Specifies an optional, application-defined parameter that is intended to be used by the application to tag different types of nodes in a diagram.</p> <p>[Example:</p> <pre>&lt;v:shape ... dgmnodekind="1"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema integer</p>                                                                                                                                    |

| Attributes                                                                                                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                               | datatype.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p>doubleclicknotify<br/>(Double-click Notification Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies that an event message is sent when a shape is double-clicked. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:doubleclicknotify="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                        |
| <p>editas (Group Diagram Type)</p>                                                                                            | <p>Specifies which diagram type the contained shapes represent. This is used in conjunction with the diagram element (§19.2.2.8). A value of canvas indicates that the group is a regular group of shapes and does not represent a diagram. Other values indicate that the diagram element and its children contain semantic information relevant to that type of diagram, which is represented by the shapes in the group.</p> <p>[Example:</p> <pre>&lt;v:group ... editas="orgchart"&gt; &lt;/v:group&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_EditAs simple type (§19.1.3.1).</p>          |
| <p>fillcolor (Fill Color)</p>                                                                                                 | <p>Specifies the color to use for the fill. Default is white. If the fill element (§19.1.2.5) is present, its color attribute takes precedence. Colors are typically specified as either a named color, such as red, or six hexadecimal digits representing the red, green and blue values of the color, such as #00FF30. Full details are specified in the simple type description.</p> <p>[Example: This shape is red if its fill is visible:</p> <pre>&lt;v:shape ... fillcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p>This is equivalent to:</p> <pre>&lt;v:shape ... fillcolor="#ff0000" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> |

| Attributes                                                                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                         | The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).                                                                                                                                                                                                                                                                                                                                            |
| <b>filled</b> (Shape Fill Toggle)                                                                       | <p>Specifies whether the closed path is filled. Default is true. This attribute is overridden by the fill on attribute.</p> <p>[Example:</p> <pre>&lt;v:shape ... filled="f"   fillcolor="red" ...&gt; &lt;/v:shape&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <b>hr</b> (Horizontal Rule Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office         | <p>Specifies that a shape is a horizontal rule. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hr="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                         |
| <b>hralign</b> (Horizontal Rule Alignment)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies the alignment of a horizontal rule. Default is left.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hralign="center" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_HrAlign simple type (§19.2.3.16).</p>                                                                                                                                                   |
| <b>href</b> (Hyperlink Target)                                                                          | <p>Specifies a hyperlink URL target for the shape. Default is no value.</p> <p>[Example:</p>                                                                                                                                                                                                                                                                                                                                               |

| Attributes                                                                                                             | Description                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                        | <p><code>&lt;v:shape ... href="http://www.openxmlformats.org" ... &gt;</code><br/> <code>&lt;/v:shape&gt;</code></p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                             |
| <p>hrnoshade<br/>(Horizontal Rule 3D Shading Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies that the horizontal rule does not have 3-D shading. Default is false.</p> <p>[Example:</p> <p><code>&lt;v:shape ... o:hrnoshade="true" ... &gt;</code><br/> <code>&lt;/v:shape&gt;</code></p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                 |
| <p>hrpct (Horizontal Rule Length Percentage)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>         | <p>Specifies the length of a horizontal rule as a percentage of page width. Default is 0.</p> <p>[Example:</p> <p><code>&lt;v:shape ... o:hrpct="85" ... &gt;</code><br/> <code>&lt;/v:shape&gt;</code></p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema float datatype.</p>                                       |
| <p>hrstd (Horizontal Rule Standard Display Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>   | <p>Specifies whether a shape is displayed as a standard horizontal rule. Only applies if hr is true. Default is false.</p> <p>[Example:</p> <p><code>&lt;v:shape ... o:hrstd="true" ... &gt;</code><br/> <code>&lt;/v:shape&gt;</code></p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <p>id (Unique Identifier)</p>                                                                                          | <p>Specifies a unique identifier that can be used to reference a VML object.</p> <p>Default is no value.</p> <p>[Example:</p>                                                                                                                                                                                                                                                |

| Attributes                                                                               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                          | <pre>&lt;v:shape ... id="myShape" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                         |
| insetmode (Text Inset Mode)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies whether the application calculates the internal text margin instead of using the inset attribute. Default is custom. This attribute is only meaningful for text boxes.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:insetmode="auto" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_InsetMode simple type (§19.2.3.17).</p>                                   |
| oned (Shape Handle Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office  | <p>Specifies whether the extra handles of a shape are hidden. If true, hides all shape handles except the top left and bottom right; that is, the same handles that are used for a straight line segment. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:oned="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| print (Print Toggle)                                                                     | <p>Specifies whether the shape is printed. Default is true.</p> <p>[Example:</p> <pre>&lt;v:shape ... print="false" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                 |
| regroupid (Regroup)                                                                      | <p>Specifies a previous group for a shape. An ID number is used to identify groups of shapes</p>                                                                                                                                                                                                                                                                                                                                                      |

| Attributes                                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>ID)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>                    | <p>that are no longer grouped. This allows shapes to be regrouped programmatically.</p> <p>[Example: The shape was part of a group identified by the ID 040754:</p> <pre>&lt;v:shape ... o:regroupid="040754" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema integer datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                               |
| <p>spid (Optional String)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies an optional string that an application can use to identify the particular shape. Default is no value.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                               |
| <p>style (Shape Styling Properties)</p>                                                     | <p>Specifies the CSS2 styling properties of the shape. The CSS2 (Cascading Style Sheets, Level 2) specification, a Recommendation of the World Wide Web Consortium, is available here: <a href="http://www.w3.org/TR/REC-CSS2">http://www.w3.org/TR/REC-CSS2</a>.</p> <p>This attribute uses a semi-colon delimited list of “name:value” pairs, the syntax defined by section 4.1.8 of the CSS2 specification for grouped declarations (without the surrounding braces). The following tables define the allowed properties and the VML treatment of each.</p> <p>[Example:</p> <pre>&lt;v:shape ... style='position:absolute;width:100pt;height:50pt' ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <table data-bbox="415 1434 1481 1858"> <tr> <th data-bbox="415 1434 662 1480">Property</th><th data-bbox="662 1434 1481 1480">Description</th></tr> <tr> <td data-bbox="415 1480 662 1751">flip</td><td data-bbox="662 1480 1481 1751"> <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul> </td></tr> <tr> <td data-bbox="415 1751 662 1858">height</td><td data-bbox="662 1751 1481 1858"> <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> </td></tr> </table> | Property | Description | flip | <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul> | height | <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> |
| Property                                                                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                               |
| flip                                                                                        | <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                               |
| height                                                                                      | <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                               |

| Attributes | Description   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |               | <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul>                                                                                                                                                                                                                                                                                                                                                    |
|            | left          | <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul> |
|            | margin-bottom | <p>Specifies the position of the bottom of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul>                                                                                         |
|            | margin-left   | <p>Specifies the position of the left of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the</li> </ul>                                                                                                                   |

| Attributes | Description                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                                  | parent object's width.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|            | margin-right                     | <p>Specifies the position of the right of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul> |
|            | margin-top                       | <p>Specifies the position of the top of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul>   |
|            | mso-position-horizontal          | <p>Specifies the horizontal positioning data for objects in WordprocessingML documents. Default is absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• absolute</li> <li>• left</li> <li>• center</li> <li>• right</li> <li>• inside</li> <li>• outside</li> </ul>                                                                                                                                                                                                                                                                                                                                                                             |
|            | mso-position-horizontal-relative | <p>Specifies relative horizontal position data for objects in WordprocessingML documents. This modifies the mso-position-horizontal property. Default is text. Allowed values are:</p> <ul style="list-style-type: none"> <li>• margin</li> <li>• page</li> <li>• text</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                     |



| Attributes | Description                    |                                                                                                                                                                                                                                                                                               |
|------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                                | <ul style="list-style-type: none"> <li>• char</li> </ul>                                                                                                                                                                                                                                      |
|            | mso-position-vertical          | <p>Specifies the vertical positioning data for objects in WordprocessingML documents. Default is absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• absolute</li> <li>• top</li> <li>• center</li> <li>• bottom</li> <li>• inside</li> <li>• outside</li> </ul>       |
|            | mso-position-vertical-relative | <p>Specifies relative vertical position data for objects in WordprocessingML documents. This modifies the mso-position-vertical property. Default is text. Allowed values are:</p> <ul style="list-style-type: none"> <li>• margin</li> <li>• page</li> <li>• text</li> <li>• line</li> </ul> |
|            | mso-wrap-distance-bottom       | <p>Specifies the distance from the bottom of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>           |
|            | mso-wrap-distance-left         | <p>Specifies the distance from the left side of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>        |
|            | mso-wrap-distance-right        | <p>Specifies the distance from the right side of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>       |
|            | mso-wrap-distance-top          | <p>Specifies the distance from the top of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>              |
|            | mso-wrap-                      | <p>Specifies whether the wrap coordinates were customized by the user. If the wrap coordinates are generated by an editor, this</p>                                                                                                                                                           |

| Attributes | Description    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | edited         | property is true; otherwise they were customized by a user. Default is false.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|            | mso-wrap-style | <p>Specifies the wrapping mode for text in shapes in WordprocessingML documents. Default is square. Allowed values are:</p> <ul style="list-style-type: none"> <li>• square - Wraps text inside the shape in a square.</li> <li>• none - Text does not wrap.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|            | position       | <p>Specifies the kind of positioning used to place an element. Default is static. When the element is contained inside a group, this property shall be absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• static - The element is positioned according to the normal flow of the page. The top and left properties are ignored. If the object is anchored inline, this value is used.</li> <li>• absolute - The element is positioned relative to the parent, using the top and left properties.</li> <li>• relative - The element is positioned according to the normal flow of the page, but the top and left properties are used. The overlap of overlapping elements is governed by the z-index property.</li> </ul>            |
|            | rotation       | Specifies the angle that a shape is rotated, in degrees. Default is 0. Positive angles are clockwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|            | top            | <p>Specifies the position of the top of the containing block of the shape relative to the element above it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> |
|            | visibility     | <p>Specifies whether a shape is displayed. Only inherit and hidden are used; any other values are mapped to inherit. Default is inherit. Allowed values are:</p> <ul style="list-style-type: none"> <li>• hidden - The shape is not visible, but is still part of the flow of the objects in the browser. Mouse events are not processed.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                        |

| Attributes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Description                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |             |           |                                                                                                                                                                                                                                                                                                                          |             |                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                              | <ul style="list-style-type: none"><li>inherit - The visibility state is inherited from the parent of the shape.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |             |           |                                                                                                                                                                                                                                                                                                                          |             |                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | width                                                                                                                                                                                                                                                                                                                                                                                        | <p>Specifies the width of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"><li>auto - Default position of an element in the flow of the page.</li><li>&lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li><li>&lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li></ul> |          |             |           |                                                                                                                                                                                                                                                                                                                          |             |                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | z-index                                                                                                                                                                                                                                                                                                                                                                                      | <p>Specifies the display order of overlapping shapes. Default is 0. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"><li>auto - Uses the order that the shapes appear in the page, bottom to top.</li><li>&lt;order&gt;- A number that represents the stacking precedence. Shapes with higher numbers are placed on top of those with lower numbers. Negative numbers are allowed.</li></ul>                                                                                                                                             |          |             |           |                                                                                                                                                                                                                                                                                                                          |             |                                                                                                                                                                                                                                                                                                                                                                                              |
| <p>The following properties are only used by the textbox element (§19.1.2.22):</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |             |           |                                                                                                                                                                                                                                                                                                                          |             |                                                                                                                                                                                                                                                                                                                                                                                              |
| <table><tr><th>Property</th><th>Description</th></tr><tr><td>direction</td><td><p>Specifies the direction of the text in the textbox. Default is ltr. This property is superceded by the mso-direction-alt property if that is specified. Allowed values are:</p><ul style="list-style-type: none"><li>ltr - Text is displayed left-to-right.</li><li>rtl - Text is displayed right-to-left.</li></ul></td></tr><tr><td>layout-flow</td><td><p>Determines the flow of the text layout in a textbox. Default is horizontal. Allowed values are:</p><ul style="list-style-type: none"><li>horizontal - Text is displayed horizontally.</li><li>vertical - Text is displayed vertically.</li><li>vertical-ideographic - Ideographic text is displayed vertically.</li><li>horizontal-ideographic - Ideographic text is displayed</li></ul></td></tr></table> |                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Property | Description | direction | <p>Specifies the direction of the text in the textbox. Default is ltr. This property is superceded by the mso-direction-alt property if that is specified. Allowed values are:</p> <ul style="list-style-type: none"><li>ltr - Text is displayed left-to-right.</li><li>rtl - Text is displayed right-to-left.</li></ul> | layout-flow | <p>Determines the flow of the text layout in a textbox. Default is horizontal. Allowed values are:</p> <ul style="list-style-type: none"><li>horizontal - Text is displayed horizontally.</li><li>vertical - Text is displayed vertically.</li><li>vertical-ideographic - Ideographic text is displayed vertically.</li><li>horizontal-ideographic - Ideographic text is displayed</li></ul> |
| Property                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |             |           |                                                                                                                                                                                                                                                                                                                          |             |                                                                                                                                                                                                                                                                                                                                                                                              |
| direction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <p>Specifies the direction of the text in the textbox. Default is ltr. This property is superceded by the mso-direction-alt property if that is specified. Allowed values are:</p> <ul style="list-style-type: none"><li>ltr - Text is displayed left-to-right.</li><li>rtl - Text is displayed right-to-left.</li></ul>                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |             |           |                                                                                                                                                                                                                                                                                                                          |             |                                                                                                                                                                                                                                                                                                                                                                                              |
| layout-flow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <p>Determines the flow of the text layout in a textbox. Default is horizontal. Allowed values are:</p> <ul style="list-style-type: none"><li>horizontal - Text is displayed horizontally.</li><li>vertical - Text is displayed vertically.</li><li>vertical-ideographic - Ideographic text is displayed vertically.</li><li>horizontal-ideographic - Ideographic text is displayed</li></ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |             |           |                                                                                                                                                                                                                                                                                                                          |             |                                                                                                                                                                                                                                                                                                                                                                                              |

| Attributes | Description           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                       | horizontally.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|            | mso-direction-alt     | Specifies an alternate direction for text in textboxes. Overrides the direction property. The only allowed value is context.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|            | mso-fit-shape-to-text | Specifies whether the shape stretches to fit the text in the textbox. Default is false.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|            | mso-fit-text-to-shape | Specifies whether the text stretches to fit the textbox. Default is false.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|            | mso-layout-flow-alt   | Specifies the alternate layout flow for text in textboxes. This property is used instead of layout-flow when the layout flow is from bottom to top for non-ideographic languages. Its only value is bottom-to-top.                                                                                                                                                                                                                                                                                                                                                                         |
|            | mso-next-textbox      | Specifies the ID of the next textbox in a series. Used to keep track of a set of linked textboxes. Default is no value.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|            | mso-rotate            | <p>Specifies a specific rotation value for text in a textbox. Default is 0. Allowed values are:</p> <ul style="list-style-type: none"> <li>• 0</li> <li>• 90</li> <li>• 180</li> <li>• -90</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                      |
|            | mso-text-scale        | Specifies the scaling factor for fitting text to shapes. Default is 0. This property is only used if mso-fit-text-to-shape is true.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|            | v-text-anchor         | <p>Specifies the vertical anchoring of text in a textbox. Default is top. The alignment of a text anchor only becomes evident if mso-fit-text-to-shape is false. This property is different from the vertical-align CSS property, which is used for ideographic languages. Allowed values are:</p> <ul style="list-style-type: none"> <li>• top</li> <li>• middle</li> <li>• bottom</li> <li>• top-center</li> <li>• middle-center</li> <li>• bottom-center</li> <li>• top-baseline</li> <li>• bottom-baseline</li> <li>• top-center-baseline</li> <li>• bottom-center-baseline</li> </ul> |

| Attributes   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |             |        |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                 |                  |                                                                                                                                                                                                                                   |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |             |        |                      |         |     |     |     |     |      |                  |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|--------|----------------------|---------|-----|-----|-----|-----|------|------------------|
|              | <p>The following properties are only used by the textpath element (§19.1.2.23):</p> <table border="1"> <tr> <th data-bbox="415 352 664 399">Property</th><th data-bbox="664 352 1482 399">Description</th></tr> <tr> <td data-bbox="415 399 664 554">font</td><td data-bbox="664 399 1482 554">Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family.</td></tr> <tr> <td data-bbox="415 554 664 638">font-family</td><td data-bbox="664 554 1482 638">Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property.</td></tr> <tr> <td data-bbox="415 638 664 758">font-size</td><td data-bbox="664 638 1482 758">Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property.</td></tr> <tr> <td data-bbox="415 758 664 1031">font-style</td><td data-bbox="664 758 1482 1031">           Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are:           <ul style="list-style-type: none"> <li>• normal</li> <li>• italic</li> <li>• oblique - Treated the same as italic.</li> </ul> </td></tr> <tr> <td data-bbox="415 1031 664 1255">font-variant</td><td data-bbox="664 1031 1482 1255">           Specifies the variant style of a font. Default is normal. The values are the same as those of the CSS font-variant property. Allowed values are:           <ul style="list-style-type: none"> <li>• normal</li> <li>• small-caps</li> </ul> </td></tr> <tr> <td data-bbox="415 1255 664 1879">font-weight</td><td data-bbox="664 1255 1482 1879">           Specifies the thickness of the letters of the font. Default is normal. The values are the same as those of the CSS font-weight property. Allowed values are:           <table border="1"> <tr> <th data-bbox="677 1404 878 1451">Value</th><th data-bbox="878 1404 1469 1451">Description</th></tr> <tr> <td data-bbox="677 1451 878 1497">normal</td><td data-bbox="878 1451 1469 1497" rowspan="6">Treated as non-bold.</td></tr> <tr> <td data-bbox="677 1497 878 1543">lighter</td></tr> <tr> <td data-bbox="677 1543 878 1589">100</td></tr> <tr> <td data-bbox="677 1589 878 1635">200</td></tr> <tr> <td data-bbox="677 1635 878 1682">300</td></tr> <tr> <td data-bbox="677 1682 878 1728">400</td></tr> <tr> <td data-bbox="677 1728 878 1774">bold</td><td data-bbox="878 1728 1469 1774">Treated as bold.</td></tr> </table> </td></tr> </table> | Property | Description | font   | Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family. | font-family | Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property. | font-size | Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property. | font-style | Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are: <ul style="list-style-type: none"> <li>• normal</li> <li>• italic</li> <li>• oblique - Treated the same as italic.</li> </ul> | font-variant     | Specifies the variant style of a font. Default is normal. The values are the same as those of the CSS font-variant property. Allowed values are: <ul style="list-style-type: none"> <li>• normal</li> <li>• small-caps</li> </ul> | font-weight | Specifies the thickness of the letters of the font. Default is normal. The values are the same as those of the CSS font-weight property. Allowed values are: <table border="1"> <tr> <th data-bbox="677 1404 878 1451">Value</th><th data-bbox="878 1404 1469 1451">Description</th></tr> <tr> <td data-bbox="677 1451 878 1497">normal</td><td data-bbox="878 1451 1469 1497" rowspan="6">Treated as non-bold.</td></tr> <tr> <td data-bbox="677 1497 878 1543">lighter</td></tr> <tr> <td data-bbox="677 1543 878 1589">100</td></tr> <tr> <td data-bbox="677 1589 878 1635">200</td></tr> <tr> <td data-bbox="677 1635 878 1682">300</td></tr> <tr> <td data-bbox="677 1682 878 1728">400</td></tr> <tr> <td data-bbox="677 1728 878 1774">bold</td><td data-bbox="878 1728 1469 1774">Treated as bold.</td></tr> </table> | Value | Description | normal | Treated as non-bold. | lighter | 100 | 200 | 300 | 400 | bold | Treated as bold. |
| Property     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |             |        |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                 |                  |                                                                                                                                                                                                                                   |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |             |        |                      |         |     |     |     |     |      |                  |
| font         | Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |             |        |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                 |                  |                                                                                                                                                                                                                                   |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |             |        |                      |         |     |     |     |     |      |                  |
| font-family  | Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |        |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                 |                  |                                                                                                                                                                                                                                   |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |             |        |                      |         |     |     |     |     |      |                  |
| font-size    | Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |        |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                 |                  |                                                                                                                                                                                                                                   |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |             |        |                      |         |     |     |     |     |      |                  |
| font-style   | Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are: <ul style="list-style-type: none"> <li>• normal</li> <li>• italic</li> <li>• oblique - Treated the same as italic.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |             |        |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                 |                  |                                                                                                                                                                                                                                   |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |             |        |                      |         |     |     |     |     |      |                  |
| font-variant | Specifies the variant style of a font. Default is normal. The values are the same as those of the CSS font-variant property. Allowed values are: <ul style="list-style-type: none"> <li>• normal</li> <li>• small-caps</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |             |        |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                 |                  |                                                                                                                                                                                                                                   |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |             |        |                      |         |     |     |     |     |      |                  |
| font-weight  | Specifies the thickness of the letters of the font. Default is normal. The values are the same as those of the CSS font-weight property. Allowed values are: <table border="1"> <tr> <th data-bbox="677 1404 878 1451">Value</th><th data-bbox="878 1404 1469 1451">Description</th></tr> <tr> <td data-bbox="677 1451 878 1497">normal</td><td data-bbox="878 1451 1469 1497" rowspan="6">Treated as non-bold.</td></tr> <tr> <td data-bbox="677 1497 878 1543">lighter</td></tr> <tr> <td data-bbox="677 1543 878 1589">100</td></tr> <tr> <td data-bbox="677 1589 878 1635">200</td></tr> <tr> <td data-bbox="677 1635 878 1682">300</td></tr> <tr> <td data-bbox="677 1682 878 1728">400</td></tr> <tr> <td data-bbox="677 1728 878 1774">bold</td><td data-bbox="878 1728 1469 1774">Treated as bold.</td></tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Value    | Description | normal | Treated as non-bold.                                                                                                                                                                                                                                | lighter     | 100                                                                                                                      | 200       | 300                                                                                                                                                      | 400        | bold                                                                                                                                                                                                                                                                            | Treated as bold. |                                                                                                                                                                                                                                   |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |             |        |                      |         |     |     |     |     |      |                  |
| Value        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |             |        |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                 |                  |                                                                                                                                                                                                                                   |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |             |        |                      |         |     |     |     |     |      |                  |
| normal       | Treated as non-bold.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |             |        |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                 |                  |                                                                                                                                                                                                                                   |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |             |        |                      |         |     |     |     |     |      |                  |
| lighter      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |             |        |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                 |                  |                                                                                                                                                                                                                                   |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |             |        |                      |         |     |     |     |     |      |                  |
| 100          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |             |        |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                 |                  |                                                                                                                                                                                                                                   |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |             |        |                      |         |     |     |     |     |      |                  |
| 200          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |             |        |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                 |                  |                                                                                                                                                                                                                                   |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |             |        |                      |         |     |     |     |     |      |                  |
| 300          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |             |        |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                 |                  |                                                                                                                                                                                                                                   |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |             |        |                      |         |     |     |     |     |      |                  |
| 400          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |             |        |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                 |                  |                                                                                                                                                                                                                                   |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |             |        |                      |         |     |     |     |     |      |                  |
| bold         | Treated as bold.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |             |        |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                 |                  |                                                                                                                                                                                                                                   |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |             |        |                      |         |     |     |     |     |      |                  |

| Attributes | Description           |                                                                                                                                                                                                                                                                                                                         |  |
|------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|            |                       | <div><div>bolder</div><div>500</div><div>600</div><div>700</div><div>800</div><div>900</div></div>                                                                                                                                                                                                                      |  |
|            | mso-text-shadow       | Specifies whether a shadow is applied to the text on a text path. Default is false.                                                                                                                                                                                                                                     |  |
|            | text-decoration       | Specifies the style of text decoration. Default is none. The values are the same as those of the CSS text-decoration property. Allowed values are: <ul style="list-style-type: none"><li>none</li><li>underline</li><li>overline</li><li>line-through</li><li>blink</li></ul>                                           |  |
|            | v-rotate-letters      | Specifies whether the letters of the text are rotated counterclockwise by 90 degrees. Default is false.                                                                                                                                                                                                                 |  |
|            | v-same-letter-heights | Specifies whether all letters are the same height regardless of initial case. If true, the lowercase letters are stretched to the height of the uppercase letters. Default is false.                                                                                                                                    |  |
|            | v-text-align          | Specifies the alignment of text. Default is left. Allowed values are: <ul style="list-style-type: none"><li>left</li><li>right</li><li>center</li><li>justify</li><li>letter-justify - Distributes the extra space between the letters.</li><li>stretch-justify - Stretches the letters to fill in the space.</li></ul> |  |
|            | v-text-kern           | Specifies whether kerning is turned on. Default is false.                                                                                                                                                                                                                                                               |  |
|            | v-text-reverse        | Specifies whether the layout order of rows is reversed. Default is false. This is used for vertical text layout.                                                                                                                                                                                                        |  |

| Attributes                                                                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                    | v-text-spacing-mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Specifies the mode for letter spacing. Default is tightening. This property determines whether space is removed between each letter (tightening) or added between each letter (tracking). The amount of letter spacing change is defined by the v-text-spacing property. Allowed values are: <ul style="list-style-type: none"><li>• tightening</li><li>• tracking</li></ul> |
|                                                                                                    | v-text-spacing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Specifies the amount of spacing for text in 100ths of single line spacing. Default is 100.                                                                                                                                                                                                                                                                                   |
|                                                                                                    | <p>The line (§19.1.2.12), polyline (§19.1.2.15) and curve (§19.1.2.3) elements ignore the following properties:</p> <ul style="list-style-type: none"><li>• top</li><li>• left</li><li>• width</li><li>• height</li></ul> <p>The following properties are not inherited by an element that references a shapetype element (§19.1.2.20) via the id attribute:</p> <ul style="list-style-type: none"><li>• flip</li><li>• height</li><li>• left</li><li>• margin-left</li><li>• margin-top</li><li>• position</li><li>• rotation</li><li>• top</li><li>• visibility</li><li>• width</li><li>• z-index</li></ul> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |                                                                                                                                                                                                                                                                                                                                                                              |
| tablelimits (Table Row Height Limits)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies a list of minimum height values for each row in a table. Default is no value.</p> <p>Used by PresentationML for native tables. This attribute is only useful when the table is made up of shapes that are grouped. When text is added to table cells, the row height can increase. The tablelimits attribute stores the original row height so that if text is deleted, the row height does not fall below the original value.</p> <p>[Example:</p>                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                              |

| Attributes                                                                                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |
|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|--------------|----------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------|
|                                                                                                                    | <pre>&lt;v:shape ... o:tablelimits="30pt 20pt" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |
| <p><b>tableproperties</b><br/>(Table Properties)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies a bitmask, represented as an integer, that determines table properties. Only the first three bits of this integer are used. Default is 0.</p> <p>Used by PresentationML for native tables. This attribute is only useful when the table is made up of shapes that are grouped. Allowed values are:</p> <table data-bbox="415 751 1260 947"> <tr> <th>Bit</th><th>Description</th></tr> <tr> <td>1</td><td>Set if the group of shapes is a table.</td></tr> <tr> <td>2</td><td>Set if the shape is a placeholder.</td></tr> <tr> <td>3</td><td>Set if the table text is bi-directional.</td></tr> </table> <p><i>[Example: Decimal 3 means that bits 1 and 2 are set.</i></p> <pre>&lt;v:shape ... o:tableproperties="3" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> | Bit   | Description | 1            | Set if the group of shapes is a table.                                           | 2      | Set if the shape is a placeholder.                                                              | 3      | Set if the table text is bi-directional.                                         |         |                                                                                                             |         |                                                                              |
| Bit                                                                                                                | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |
| 1                                                                                                                  | Set if the group of shapes is a table.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |
| 2                                                                                                                  | Set if the shape is a placeholder.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |
| 3                                                                                                                  | Set if the table text is bi-directional.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |
| <p><b>target</b> (Hyperlink Display Target)</p>                                                                    | <p>Specifies a frame or window that a URL is displayed in. Default is no value. Allowed values are:</p> <table data-bbox="415 1419 1479 1890"> <tr> <th>Value</th><th>Description</th></tr> <tr> <td>&lt;targetname&gt;</td><td>String containing the name of the frame or window in which to load the document.</td></tr> <tr> <td>_blank</td><td>Specifies that the linked document is loaded into a new blank window. This window is not named.</td></tr> <tr> <td>_media</td><td>Specifies that the linked document is loaded into the browser's multimedia pane.</td></tr> <tr> <td>_parent</td><td>Specifies that the linked document is loaded into the immediate parent of the document containing the link.</td></tr> <tr> <td>_search</td><td>Specifies that the linked document is loaded into the browser's search pane.</td></tr> </table>                                          | Value | Description | <targetname> | String containing the name of the frame or window in which to load the document. | _blank | Specifies that the linked document is loaded into a new blank window. This window is not named. | _media | Specifies that the linked document is loaded into the browser's multimedia pane. | _parent | Specifies that the linked document is loaded into the immediate parent of the document containing the link. | _search | Specifies that the linked document is loaded into the browser's search pane. |
| Value                                                                                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |
| <targetname>                                                                                                       | String containing the name of the frame or window in which to load the document.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |
| _blank                                                                                                             | Specifies that the linked document is loaded into a new blank window. This window is not named.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |
| _media                                                                                                             | Specifies that the linked document is loaded into the browser's multimedia pane.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |
| _parent                                                                                                            | Specifies that the linked document is loaded into the immediate parent of the document containing the link.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |
| _search                                                                                                            | Specifies that the linked document is loaded into the browser's search pane.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |



| Attributes                                                                                                                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                                                                                                                 |                   |                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------|
|                                                                                                                                                                     | <table border="1" data-bbox="415 243 1471 415"> <tr> <td data-bbox="415 243 626 327"><code>_self</code></td><td data-bbox="626 243 1471 327">Specifies that the linked document is loaded into the window in which the link was clicked (the active window).</td></tr> <tr> <td data-bbox="415 327 626 411"><code>_top</code></td><td data-bbox="626 327 1471 411">Specifies that the linked document is loaded into the topmost window.</td></tr> </table> <p data-bbox="415 453 537 485"><i>[Example:</i></p> <pre data-bbox="456 527 1065 653" data-cs="2" data-kind="parent"> &lt;v:shape ...   href="http://www.openxmlformats.org"   target="_self" ... &gt; &lt;/v:shape&gt; </pre> <p data-bbox="415 695 578 726"><i>end example]</i></p> <p data-bbox="415 768 1373 831">The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> | <code>_self</code> | Specifies that the linked document is loaded into the window in which the link was clicked (the active window). | <code>_top</code> | Specifies that the linked document is loaded into the topmost window. |
| <code>_self</code>                                                                                                                                                  | Specifies that the linked document is loaded into the window in which the link was clicked (the active window).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |                                                                                                                 |                   |                                                                       |
| <code>_top</code>                                                                                                                                                   | Specifies that the linked document is loaded into the topmost window.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                    |                                                                                                                 |                   |                                                                       |
| <p data-bbox="139 852 350 884">title (Shape Title)</p>                                                                                                              | <p data-bbox="415 852 1471 915">Specifies the text displayed when the mouse pointer moves over the shape. Default is no value.</p> <p data-bbox="415 957 537 989"><i>[Example:</i></p> <pre data-bbox="456 1031 935 1094" data-cs="2" data-kind="parent"> &lt;v:shape ... title="tooltip" ... &gt; &lt;/v:shape&gt; </pre> <p data-bbox="415 1136 578 1167"><i>end example]</i></p> <p data-bbox="415 1209 1373 1272">The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                             |                    |                                                                                                                 |                   |                                                                       |
| <p data-bbox="139 1287 367 1350">userdrawn (Exists In Master Slide)</p> <p data-bbox="139 1392 350 1528">Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p data-bbox="415 1287 1471 1350">Specifies whether the user has added the shape to a master slide. Default is false. Used by PresentationML.</p> <p data-bbox="415 1392 537 1423"><i>[Example:</i></p> <pre data-bbox="456 1465 984 1528" data-cs="2" data-kind="parent"> &lt;v:shape ... o:userdrawn="true" ... &gt; &lt;/v:shape&gt; </pre> <p data-bbox="415 1570 578 1602"><i>end example]</i></p> <p data-bbox="415 1644 1390 1707">The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                   |                    |                                                                                                                 |                   |                                                                       |
| <p data-bbox="139 1722 358 1785">userhidden (Hide Script Anchors)</p> <p data-bbox="139 1827 350 1890">Namespace:<br/>urn:schemas-</p>                              | <p data-bbox="415 1722 1471 1827">Specifies whether a script anchor is hidden. Default is false. If true, script anchors stay hidden even if the shape is otherwise visible. A script anchor is the visual representation of a script that when displayed in an application.</p> <p data-bbox="415 1869 537 1900"><i>[Example:</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                                                                                                                 |                   |                                                                       |

| Attributes                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| microsoft-com:office:office         | <pre>&lt;v:shape ... o:userhidden="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                              |
| wrapcoords (Shape Bounding Polygon) | <p>Specifies the bounding polygon that surrounds a shape. This is specified using a comma-delimited list of x and y coordinates: "x1,y1,x2,y2,x3,y3,..." This is used when text is tightly wrapped around a shape. Default is no value until the mso-wrap-mode style attribute is set to <i>tight</i> or <i>through</i>.</p> <p>[Example:</p> <pre>&lt;v:shape ...   wrapcoords="0,0 0,200, 200,200, 200,0" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |

[Note: The W3C XML Schema definition of this element's content model (CT\_Group) is located in §A.6.1. *end note]*

#### 19.1.2.8 h (Shape Handle)

This element defines a single handle, which is a user interface element tied to one or two adj values. Moving the handle changes its linked adj values, which in turn changes formulas and attributes that depend on them. The handle is optionally constrained vertically or horizontally. The linked adj values store the position of the handle in the shape's coordinate space.

[Example: The example below defines a simple kite shape with a resizable width:

```
<v:shape coordsize="200,200" coordorigin="-100,-100" adj="100"
style="width:50;height:50;position:relative"
path="m @1,-50 l 0,-200 @0,-50 0,200 x e">
<v:formulas>
  <v:f eqn="val #0"/>
  <v:f eqn="sum 0 0 @0"/>
</v:formulas>
<v:handles>
```

```

    <v:h position="#0,0"/>
  </v:handles>
</v:shape>

```

*end example]*

| Parent Elements     |
|---------------------|
| handles (§19.1.2.9) |

| Attributes                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| invx (Invert Handle's X Position) | <p>Specifies whether the x position of the handle should be inverted according to:<br/> <math>x_{\text{new}} = \text{coordorigin}_x + \text{coordsize}_x - x_{\text{old}}</math></p> <p>Default is false.</p> <p>[Example:</p> <pre>     &lt;v:handles&gt;       &lt;v:h ... invx="true" ... /&gt;     &lt;/v:handles&gt; </pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| invy (Invert Handle's Y Position) | <p>Specifies whether the y position of the handle should be inverted according to:<br/> <math>y_{\text{new}} = \text{coordorigin}_y + \text{coordsize}_y - y_{\text{old}}</math></p> <p>Default is false.</p> <p>[Example:</p> <pre>     &lt;v:handles&gt;       &lt;v:h ... invy="true" ... /&gt;     &lt;/v:handles&gt; </pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| map (Handle Coordinate Mapping)   | <p>Specifies how the x and y positions of the handle are mapped from the coordsize range into the specified range. Default is "0,1000".</p> <p>[Example:</p>                                                                                                                                                                                                                                                                                                       |

| Attributes                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             | <pre>&lt;v:handles&gt;   &lt;v:h ... map="-1000,1000" ... /&gt; &lt;/v:handles&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| polar (Handle Polar Center) | <p>Specifies the center position of a handle that uses polar coordinates. If specified, the position attribute is assumed to contain radius and angle values. If omitted, the position attribute is assumed to contain x and y positions. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:handles&gt;   &lt;v:h ... polar="0,0" ... /&gt; &lt;/v:handles&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                            |
| position (Handle Position)  | <p>Specifies the x and y position of the handle. If the polar attribute is present, defines the handle position using radius and angle values. Default is "0,0".</p> <p>Each value in the vector is one of the following:</p> <ul style="list-style-type: none"> <li>• constant</li> <li>• formula (e.g., @2)</li> <li>• adj value (e.g., #2)</li> <li>• center</li> <li>• topleft</li> <li>• bottomright</li> </ul> <p>Each of the above except for an adj value reference fixes the handle position for that dimension. Specifying an adj value allows the handle to move in that dimension and the handle position for that dimension is stored in the adj value.</p> <p>[Example: The handle's x position is fixed but it is free to move in the y dimension:</p> <pre>&lt;v:handles&gt;   &lt;v:h ... position="topleft,#2" ... /&gt; &lt;/v:handles&gt;</pre> <p><i>end example]</i></p> |

| Attributes                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                            | The possible values for this attribute are defined by the W3C XML Schema string datatype.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| radiusrange<br>(Handle Polar Radius Range) | <p>Specifies a range of minimum and maximum values that constrain the radius of a handle using polar coordinates. Default is "0,0". Each value is either a constant or a formula reference. Omitting a value leaves that bound unconstrained.</p> <p>[Example: The polar handle can only be moved within a radius range of 25 to 50.</p> <pre>&lt;v:handles&gt;   &lt;v:h ... radiusrange="25,50" ... /&gt; &lt;/v:handles&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| switch (Handle Inversion Toggle)           | <p>Specifies whether the x and y dimensions of the handle are switched when the shape is taller than it is wide. Default is false. This is useful for shapes with limo stretch behavior.</p> <p>[Example:</p> <pre>&lt;v:handles&gt;   &lt;v:h ... switch="true" ... /&gt; &lt;/v:handles&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalseBlank simple type (§20.1.2.6).</p>                                                                                                                       |
| xrange (Handle X Position Range)           | <p>Specifies a range of minimum and maximum values that constrain the x position of a handle. Default is "0,0". Each value is either a constant or a formula reference. Omitting a value leaves that bound unconstrained.</p> <p>[Example: The handle's x position has a maximum bound of 500 and no minimum bound:</p> <pre>&lt;v:handles&gt;   &lt;v:h ... xrange=",500" ... /&gt; &lt;/v:handles&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                        |
| yrange (Handle Y                           | Specifies a range of minimum and maximum values that constrain the y position of a                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

| Attributes      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Position Range) | <p>handle. Default is "0,0". Each value is either a constant or a formula reference. Omitting a value leaves that bound unconstrained.</p> <p>[<i>Example:</i> The handle's y position has a minimum bound of -500 and no maximum bound:</p> <pre>&lt;v:handles&gt;   &lt;v:h ... yrange="-500," ... /&gt; &lt;/v:handles&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |

[*Note:* The W3C XML Schema definition of this element's content model (CT H) is located in §A.6.1. *end note]*

#### 19.1.2.9 handles (Set of Handles)

This element defines a set of user interface elements which can vary a shape's adj values. All dependent formulas and attributes are recalculated. Each handle is defined by a child h element.

| Parent Elements                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arc (§19.1.2.1); background (Part 1, §17.2.1); curve (§19.1.2.3); group (§19.1.2.7); image (§19.1.2.10); line (§19.1.2.12); object (Part 1, §17.3.3.19); oval (§19.1.2.13); pict (§14.2.2.2); pict (§14.5.1); polyline (§19.1.2.15); rect (§19.1.2.16); roundrect (§19.1.2.17); shape (§19.1.2.19); shapetype (§19.1.2.20) |

| Child Elements   | Subclause |
|------------------|-----------|
| h (Shape Handle) | §19.1.2.8 |

[*Note:* The W3C XML Schema definition of this element's content model (CT Handles) is located in §A.6.1. *end note]*

#### 19.1.2.10 image (Image File)

This element is used to draw an image that has been loaded from an external source. There is an implied rectangle that is the same size as the image. Any stroke or fill is applied to this implied rectangle. The stroke is drawn on top of the image. The fill is behind the image and therefore only visible through transparent areas of the image. Image transparency is either encoded in the file or defined via a color value using the chromakey attribute. Unlike the imagedata element (§19.1.2.11), the image element does not have a parent element.

[*Example:*

```
<v:image src="myimage.gif"
  style="position:relative;top:1;left:1;width:50;height:45"
  cropbottom="10%" gamma="0.5" gain="2">
</v:image>
```



*end example]*

| Parent Elements                                                                                                |
|----------------------------------------------------------------------------------------------------------------|
| background (Part 1, §17.2.1); group (§19.1.2.7); object (Part 1, §17.3.3.19); pict (§14.2.2.2); pict (§14.5.1) |

| Child Elements                         | Subclause  |
|----------------------------------------|------------|
| anchorlock (Anchor Location Is Locked) | §19.3.2.1  |
| borderbottom (Bottom Border)           | §19.3.2.2  |
| borderleft (Left Border)               | §19.3.2.3  |
| borderright (Right Border)             | §19.3.2.4  |
| bordertop (Top Border)                 | §19.3.2.5  |
| callout (Callout)                      | §19.2.2.2  |
| ClientData (Attached Object Data)      | §19.4.2.12 |
| clippath (Shape Clipping Path)         | §19.2.2.3  |
| extrusion (3D Extrusion)               | §19.2.2.11 |
| fill (Shape Fill Properties)           | §19.1.2.5  |
| formulas (Set of Formulas)             | §19.1.2.6  |
| handles (Set of Handles)               | §19.1.2.9  |
| imagedata (Image Data)                 | §19.1.2.11 |
| lock (Shape Protections)               | §19.2.2.18 |
| path (Shape Path)                      | §19.1.2.14 |
| shadow (Shadow Effect)                 | §19.1.2.18 |
| signatureline (Digital Signature Line) | §19.2.2.30 |
| skew (Skew Transform)                  | §19.2.2.31 |
| stroke (Line Stroke Settings)          | §19.1.2.21 |
| textbox (Text Box)                     | §19.1.2.22 |

| Child Elements              | Subclause  |
|-----------------------------|------------|
| textdata (VML Diagram Text) | §19.5.2.2  |
| textpath (Text Layout Path) | §19.1.2.23 |
| wrap (Text Wrapping)        | §19.3.2.6  |

| Attributes                                                                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>allowincell (Allow in Table Cell)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>  | <p>Specifies whether a shape can be placed in a table. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:allowincell="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                  |
| <p>allowoverlap (Allow Shape Overlap)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether a shape can overlap another shape. Default is true. If false, the shape shifts left or right so as not to overlap another shape, similar to the behavior of the HTML float attribute.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:allowoverlap="false" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                              |
| <p>alt (Alternate Text)</p>                                                                             | <p>Specifies alternative text describing the graphical object. This text should provide a brief description of the shape for use by accessibility tools. Default is no value.</p> <p>[Example: The alt text describes the basic shape:</p> <pre>&lt;v:shape ... fillcolor="red" alt="Red rectangle"&gt; &lt;/v:shape&gt;</pre> <p>The alt text describes the contents of a shape displaying an image:</p> <pre>&lt;v:shape ... alt="Picture of a sunset"&gt; &lt;/v:shape&gt;</pre> |



| Attributes                                                                                                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                              | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p>bilevel (Image Bilevel Toggle)</p>                                                                        | <p>Specifies that all colors in the picture shall be converted to either 0 or full intensity component values. This converts a color bitmap to 8 colors and a grayscale bitmap to black and white. Default is false.</p> <p>[Example:</p> <pre>&lt;v:image ... bilevel="true" ...&gt; &lt;/v:image&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <p>blacklevel (Image Brightness)</p>                                                                         | <p>Specifies the image brightness. Default is 0.</p> <p>[Example:</p> <pre>&lt;v:image ... blacklevel="0.1" ...&gt; &lt;/v:image&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                       |
| <p>borderbottomcolor (Bottom Border Color)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies the bottom border color of an inline shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:borderbottomcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string</p>                                                                                                                                                                                                                              |

| Attributes                                                                                                   | Description                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                              | datatype.                                                                                                                                                                                                                                                                                               |
| <b>borderleftcolor</b><br>(Border Left Color)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office   | Specifies the left border color of an inline shape. Default is no value.<br><br><i>[Example:</i><br><pre>&lt;v:shape ... o:borderleftcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <i>end example]</i><br><br>The possible values for this attribute are defined by the W3C XML Schema string datatype.   |
| <b>borderrightcolor</b><br>(Border Right Color)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | Specifies the right border color of an inline shape. Default is no value.<br><br><i>[Example:</i><br><pre>&lt;v:shape ... o:borderrightcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <i>end example]</i><br><br>The possible values for this attribute are defined by the W3C XML Schema string datatype. |
| <b>bordertopcolor</b><br>(Border Top Color)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office     | Specifies the top border color of an inline shape. Default is no value.<br><br><i>[Example:</i><br><pre>&lt;v:shape ... o:bordertopcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <i>end example]</i><br><br>The possible values for this attribute are defined by the W3C XML Schema string datatype.     |
| <b>bullet</b> (Graphical Bullet)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office                | Specifies whether the shape is a graphical bullet. Default is false.<br><br><i>[Example:</i><br><pre>&lt;v:shape ... o:bullet="true" ... &gt; &lt;/v:shape&gt;</pre> <i>end example]</i><br><br>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).         |

| Attributes                                                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>button (Button Behavior Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>        | <p>Specifies whether a shape exhibits button press behavior on click. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:button="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>bwmode (Black-and-White Mode)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>          | <p>Specifies how a shape renders for black-and-white output devices. When a shape is printed on a black-and-white printer or displayed in a black-and-white view in an application, several options are possible. Default is auto, which uses o:bwnormal for normal black-and-white rendering and o:bwpure for pure black-and-white rendering.</p> <p>bwnormal and bwpure are subordinate to bwmode. If bwmode is "auto" then the value for bwnormal or bwpure is used depending on what the output format is. An application can define for itself what, if any, difference there is between normal B&amp;W and pure B&amp;W. [Example: Normal B&amp;W might allow greyscale and pure B&amp;W might not. end example]</p> <p>[Example: This shape renders in grayscale in a black-and-white environment:</p> <pre>&lt;v:shape ... o:bwmode="grayscale" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3).</p> |
| <p>bwnormal (Normal Black-and-White Mode)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies the black-and-white mode for normal black-and-white output devices. Default is auto.</p> <p>[Example: This shape renders in a pale grayscale in a normal black-and-white environment:</p> <pre>&lt;v:shape ... o:bwmode="auto" o:bwnormal="lightgrayscale" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <p>bwpure (Pure Black-and-White)</p>                                                                        | <p>Specifies the black-and-white mode for pure black-and-white output devices. Default is auto.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| Attributes                                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Mode)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>[Example: This shape renders in high contrast when in a pure black-and-white environment:</p> <pre>&lt;v:shape ... o:bwmode="auto" o:bwpure="highcontrast" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3).</p>                                                                                                                                                                      |
| <p>chromakey (Image Transparency Color)</p>                                | <p>Specifies a color value that is transparent and show anything behind the shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:image ... chromakey="white" ...&gt; &lt;/v:image&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p>                                                                                                                                                              |
| <p>class (CSS Reference)</p>                                               | <p>Specifies a reference to the definition of a CSS style. Default is no value.</p> <p>[Example: The snippets below are equivalent:</p> <pre>... .narrowstyle {width:50;height:100} ... &lt;v:shape ... class="narrowstyle" style="top:1;left:1"&gt; &lt;/v:shape&gt;</pre> <pre>&lt;v:shape ... style="top:1;left:1; width:50;height:100"&gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <p>clip (Clipping Toggle)</p>                                              | <p>Specifies that the clipping region is active. This is used in conjunction with the clippath (§19.2.2.3) element to create a clipping region.</p>                                                                                                                                                                                                                                                                                                                                        |

| Attributes                                                                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>                                              | <p>[Example:</p> <pre>&lt;v:shape ... o:clip="true"&gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <p>cliptowrap (Clip to Wrapping Polygon)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies that the clipping region for the shape aligns with the wrapping polygon that tightly surrounds the entire shape (essentially, that the shape shall not be drawn beyond its wrapping polygon's extents – if it does, the shape shall be clipped). Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:cliptowrap="true"&gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                    |
| <p>connectortype (Shape Connector Type)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>  | <p>Specifies the kind of connector used for joining shapes. Default is straight.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:connectortype="elbow" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_ConnectorType simple type (§19.2.3.7).</p>                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p>coordorigin (Coordinate Space Origin)</p>                                                               | <p>Specifies the coordinate of the top left corner of the shape's coordinate space. This determines the position of the (0,0) coordinate space origin within the shape's bounding box. Default is "0,0", which places the (0,0) origin at the top left corner of the bounding box.</p> <p>This affects shape properties that specify coordinate positions, such as the path attribute. Thus a path can be defined against a generic (0,0) origin and the coordorigin value translates the entire path within the shape's bounding space.</p> <p>[Example: The horizontal and vertical coordinate space ranges from -100 to +100 because the coordinate space (coordsize) is 200 by 200 and the top left coordinate is (-100,-100).</p> |

| Attributes                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                             | <p>The (0,0) origin lies at the center of the shape's bounding box, as evidenced by the position of the shape's path within the coordinate space:</p> <pre>&lt;v:shape ... coordsize="200,200"   coordorigin="-100,-100"   path="m 0,0 l 0,50, 50,50, 50,0 x e"&gt; &lt;/v:shape&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>coordsize</b><br>(Coordinate Space Size) | <p>Specifies the size of the shape's coordinate space in coordinate units. Default is "1000,1000".</p> <p>The physical size of a coordinate unit length is determined by both the size of the coordinate space (coordsize) and the size of the shape (style width and height). The coordsize attribute defines the number of horizontal and vertical subdivisions into which the shape's bounding box is divided. The combination of coordsize and style width/height effective scales the shape anisotropically.</p> <p>[Example: The path is 50 units wide and tall, which is 25% of the size of the coordinate space:</p> <pre>&lt;v:shape ... coordsize="200,200"   coordorigin="-100,-100"   path="m 0,0 l 0,50, 50,50, 50,0 x e"&gt; &lt;/v:shape&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <b>cropbottom</b> (Image Bottom Crop)       | <p>Specifies the how much to crop the image from the bottom up as a fraction of picture size. Default is 0. This numeric value can also be specified in 1/65536-ths if a trailing "f" is supplied. For example, a value of "52429f" represents 52429/65536 or 0.8.</p> <p>[Example:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

| Attributes                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                              | <p data-bbox="456 285 935 348">&lt;v:image ... cropbottom="10%" ...&gt;<br/>&lt;/v:image&gt;</p>  <p data-bbox="414 520 574 552"><i>end example]</i></p> <p data-bbox="414 594 1373 657">The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                            |
| cropleft (Image Left Crop)   | <p data-bbox="414 678 1422 779">Specifies how much to crop the image from the left in as a fraction of picture size. Default is 0. This numeric value can also be specified in 1/65536-ths if a trailing "f" is supplied. For example, a value of "52429f" represents 52429/65536 or 0.8.</p> <p data-bbox="414 821 532 852">[Example:</p> <p data-bbox="456 894 902 957">&lt;v:image ... cropleft="10%" ...&gt;<br/>&lt;/v:image&gt;</p>  <p data-bbox="414 1129 574 1161"><i>end example]</i></p> <p data-bbox="414 1203 1373 1266">The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                              |
| cropright (Image Right Crop) | <p data-bbox="414 1283 1430 1419">Specifies how much to crop the image from the right in as a fraction of picture size. Default is 0. This numeric value can also be specified in 1/65536-ths if a trailing "f" is supplied. [Example: For example, a value of "52429f" represents 52429/65536 or 0.8. <i>end example]</i></p> <p data-bbox="414 1461 532 1493">[Example:</p> <p data-bbox="456 1535 919 1598">&lt;v:image ... cropright="10%" ...&gt;<br/>&lt;/v:image&gt;</p>  <p data-bbox="414 1770 574 1801"><i>end example]</i></p> <p data-bbox="414 1843 1373 1875">The possible values for this attribute are defined by the W3C XML Schema string</p> |

| Attributes                                                                                                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                      | datatype.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| croptop (Image Top Crop)                                                                                             | <p>Specifies how much to crop the image from the top down as a fraction of picture size. Default is 0. This numeric value can also be specified in 1/65536-ths if a trailing "f" is supplied. <i>[Example: For example, a value of "52429f" represents 52429/65536 or 0.8. end example]</i></p> <p><i>[Example:</i></p> <pre data-bbox="451 548 886 611">&lt;v:image ... croptop="10%" ...&gt; &lt;/v:image&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| dgmlayout<br>(Diagram Node Layout Identifier)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office           | <p>Specifies the kind of automatic layout to apply to the diagram node. This is only meaningful if the shape is a node in an organization chart, which is denoted by the orgchart value of the editas attribute of the group element.</p> <p><i>[Example:</i></p> <pre data-bbox="451 1115 854 1178">&lt;v:shape ... dgmlayout="1"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_DiagramLayout simple type (§19.2.3.10).</p>                                                                                                                                |
| dgmlayoutmru<br>(Diagram Node Recent Layout Identifier)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies the kind of automatic layout most recently used on the child elements of the diagram node. This is only meaningful if the shape is a node in an organization chart, which is denoted by the orgchart value of the editas attribute of the group element.</p> <p><i>[Example:</i></p> <pre data-bbox="451 1619 854 1682">&lt;v:shape ... dgmlayout="1"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_DiagramLayout simple type (§19.2.3.10).</p>                                                                                                |



| Attributes                                                                                                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>dgmnodekind<br/>(Diagram Node Identifier)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>                | <p>Specifies an optional, application-defined parameter that is intended to be used by the application to tag different types of nodes in a diagram.</p> <p>[Example:</p> <pre>&lt;v:shape ... dgmnodekind="1"&gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema integer datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                            |
| <p>doubleclicknotify<br/>(Double-click Notification Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies that an event message is sent when a shape is double-clicked. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:doubleclicknotify="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <p>fillcolor (Fill Color)</p>                                                                                                 | <p>Specifies the color to use for the fill. Default is white. If the fill element (§19.1.2.5) is present, its color attribute takes precedence. Colors are typically specified as either a named color, such as red, or six hexadecimal digits representing the red, green and blue values of the color, such as #00FF30. Full details are specified in the simple type description.</p> <p>[Example: This shape is red if its fill is visible:</p> <pre>&lt;v:shape ... fillcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p>This is equivalent to:</p> <pre>&lt;v:shape ... fillcolor="#ff0000" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p> |
| <p>filled (Shape Fill Toggle)</p>                                                                                             | <p>Specifies whether the closed path is filled. Default is true. This attribute is overridden by the fill on attribute.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| Attributes                                                                                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                       | <p>[Example:</p> <pre>&lt;v:shape ... filled="f"   fillcolor="red" ...&gt; &lt;/v:shape&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                               |
| <p>forcedash (Force Dashed Outline)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether a dashed outline is used to draw a shape when a shape has no line or fill. Default is false.</p> <p>Used by PresentationML placeholders to draw a dashed outline when there is no line and no fill for a shape.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:forcedash="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <p>gain (Image Intensity)</p>                                                                         | <p>Specifies an adjustment for the intensity of all colors. Essentially sets how bright white is. Default is 1.</p> <p>[Example:</p> <pre>&lt;v:image ... gain="0.5" ...&gt; &lt;/v:image&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                 |

| Attributes                                                                               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| gamma (Image Gamma Correction)                                                           | <p>Specifies the gamma correction. Default is 1.</p> <p>Gamma correction is a factor by which the intended target display gamma differs from the sRGB profile. It can be used to correct for images not prepared for sRGB displays and to adjust overall image contrast. Decreasing it below 1 gives a higher contrast image.</p> <p>[Example:</p> <pre>&lt;v:image ... gamma="0.5" ...&gt; &lt;/v:image&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| grayscale (Image Grayscale Toggle)                                                       | <p>Specifies to display the image in grayscale. Default is false.</p> <p>[Example:</p> <pre>&lt;v:image ... gamma="0.5" ...&gt; &lt;/v:image&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                     |
| hr (Horizontal Rule Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies that a shape is a horizontal rule. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hr="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                        |
| hralign (Horizontal                                                                      | <p>Specifies the alignment of a horizontal rule. Default is left.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| Attributes                                                                                                             | Description                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Rule Alignment)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>                                   | <p>[Example:</p> <pre>&lt;v:shape ... o:hralign="center" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_HrAlign simple type (§19.2.3.16).</p>                                                                                          |
| <p>href (Hyperlink Target)</p>                                                                                         | <p>Specifies a hyperlink URL target for the shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... href="http://www.openxmlformats.org" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <p>hrnoshade<br/>(Horizontal Rule 3D Shading Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies that the horizontal rule does not have 3-D shading. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hrnoshade="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>  |
| <p>hrpct (Horizontal Rule Length Percentage)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>         | <p>Specifies the length of a horizontal rule as a percentage of page width. Default is 0.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hrpct="85" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema float datatype.</p>        |
| <p>hrstd (Horizontal Rule Standard Display Toggle)</p>                                                                 | <p>Specifies whether a shape is displayed as a standard horizontal rule. Only applies if hr is true. Default is false.</p>                                                                                                                                                                                  |

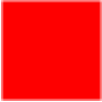
| Attributes                                                                                       | Description                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>                                    | <p>[Example:</p> <pre>&lt;v:shape ... o:hrstd="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                              |
| <p>id (Unique Identifier)</p>                                                                    | <p>Specifies a unique identifier that can be used to reference a VML object.</p> <p>Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... id="myShape" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                         |
| <p>insetmode (Text Inset Mode)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether the application calculates the internal text margin instead of using the inset attribute. Default is custom. This attribute is only meaningful for text boxes.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:insetmode="auto" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_InsetMode simple type (§19.2.3.17).</p> |
| <p>insetpen (Inset Border From Path)</p>                                                         | <p>Specifies that the border shall be displayed inside of the path defining the shape, rather than along the path (the default border placement), or outside of the path as might be done with an image.</p> <p>[Example:</p> <pre>&lt;v:shape ... insetpen="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p>                                                                                       |

| Attributes                                                                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                            | <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                         |
| <p>ole (Embedded Object Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>          | <p>Specifies whether the shape is an embedded object. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:ole="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalseBlank simple type (§20.1.2.6).</p>                                                                                                                                                 |
| <p>oleicon (Embedded Object Icon Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether an embedded object is displayed as an icon. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:oleicon="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                       |
| <p>oned (Shape Handle Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>            | <p>Specifies whether the extra handles of a shape are hidden. If true, hides all shape handles except the top left and bottom right; that is, the same handles that are used for a straight line segment. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:oned="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <p>opacity (Fill Color Opacity)</p>                                                                        | <p>Specifies the opacity of the primary fill color. Default is 1.0. This numeric value can also be specified in 1/65536ths if a trailing "f" is supplied. [Example: A value of "52429f" represents 52429/65536 or 0.8. end example]</p> <p>[Example: The red color is 25% opaque:</p> <pre>&lt;v:fill type="gradient" color="red" color2="blue" opacity=".25"&gt;</pre>                                                                        |

| Attributes                                                                                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                            | <p><code>&lt;/v:fill&gt;</code></p>  <p>opacity="1"</p> <p>opacity=".25"</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                     |
| <p>preferrelative<br/>(Relative Resize Toggle)</p> <p>Namespace:<br/>urn:schemas-<br/>microsoft-<br/>com:office:office</p> | <p>Specifies whether the original size of an object is saved after reformatting. Default is false. If true, the original size of the object is stored and all resizing is based on a percentage of that original size. Otherwise, each resizing resets the scale to 100%.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:preferrelative="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <p>print (Print Toggle)</p>                                                                                                | <p>Specifies whether the shape is printed. Default is true.</p> <p>[Example:</p> <pre>&lt;v:shape ... print="false" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                         |
| <p>regroupid (Regroup ID)</p> <p>Namespace:<br/>urn:schemas-<br/>microsoft-<br/>com:office:office</p>                      | <p>Specifies a previous group for a shape. An ID number is used to identify groups of shapes that are no longer grouped. This allows shapes to be regrouped programmatically.</p> <p>[Example: The shape was part of a group identified by the ID 040754:</p> <pre>&lt;v:shape ... o:regroupid="040754" ... &gt; &lt;/v:shape&gt;</pre>                                                                                                                                                                       |

| Attributes                                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                             | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema integer datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                 |
| <p>spid (Optional String)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies an optional string that an application can use to Identify the particular shape. Default is no value.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                      |
| <p>spt (Optional Number)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>  | <p>Specifies an optional number that an application can use to associate the particular shape with a defined shape type. Default is 0.</p> <p>The possible values for this attribute are defined by the W3C XML Schema float datatype.</p>                                                                                                                                                                                                                                                                   |
| <p>src (Image Source)</p>                                                                   | <p>Specifies the URL of the image to use.</p> <p>[Example:</p> <pre>&lt;v:image ... src="myimage.gif" ...&gt; &lt;/v:image&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                         |
| <p>strokecolor (Shape Stroke Color)</p>                                                     | <p>Specifies the primary color of the brush to use to stroke the path of the shape. Default is black. The color attribute of the stroke element (§19.1.2.21) overrides this. Colors are typically specified as either a named color, such as red, or six hexadecimal digits representing the red, green and blue values of the color, such as #00FF30. Full details are specified in the simple type description.</p> <p>[Example:</p> <pre>&lt;v:shape ... strokecolor="red" ...&gt; &lt;/v:shape&gt;</pre> |



| Attributes                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    |  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p>                                                                                                                                                                                                                                                                                                                                                                                   |
| stroked (Shape Stroke Toggle)      | <p>Specifies whether the path defining the shape is stroked with a solid line. The stroke element (§19.1.2.21) defines other strokes. The on attribute of the stroke element overrides this attribute. Default is true.</p> <p>[Example:</p> <pre data-bbox="451 751 1063 856">&lt;v:shape ... fillcolor="red"   stroked="false" strokecolor="blue"...&gt; &lt;/v:shape&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| strokeweight (Shape Stroke Weight) | <p>Specifies the width of the brush to use to stroke the path. Default is 1 point. If a number is given without units, the emu is used. The weight attribute of the stroke element (§19.1.2.21) overrides this attribute.</p> <p>[Example:</p> <pre data-bbox="451 1392 987 1465">&lt;v:shape ... strokeweight="3pt" ... &gt; &lt;/v:shape&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                  |
| style (Shape Styling Properties)   | <p>Specifies the CSS2 styling properties of the shape. The CSS2 (Cascading Style Sheets, Level 2) specification, a Recommendation of the World Wide Web Consortium, is available</p>                                                                                                                                                                                                                                                                                                                                                                                                                  |

| Attributes | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <p>here: <a href="http://www.w3.org/TR/REC-CSS2">http://www.w3.org/TR/REC-CSS2</a>.</p> <p>This attribute uses a semi-colon delimited list of “name:value” pairs, the syntax defined by section 4.1.8 of the CSS2 specification for grouped declarations (without the surrounding braces). The following tables define the allowed properties and the VML treatment of each.</p> <p>[Example:<br/> <code>&lt;v:shape ... style='position:absolute;width:100pt;height:50pt' ...</code><br/> <code>&gt;</code><br/> <code>&lt;/v:shape&gt;</code><br/> end example]</p> <table border="1"> <thead> <tr> <th data-bbox="415 703 662 751">Property</th><th data-bbox="662 703 1492 751">Description</th></tr> </thead> <tbody> <tr> <td data-bbox="415 751 662 1018">flip</td><td data-bbox="662 751 1492 1018"> <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul> </td></tr> <tr> <td data-bbox="415 1018 662 1430">height</td><td data-bbox="662 1018 1492 1430"> <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> </td></tr> <tr> <td data-bbox="415 1430 662 1869">left</td><td data-bbox="662 1430 1492 1869"> <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the</li> </ul> </td></tr> </tbody> </table> | Property | Description | flip | <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul> | height | <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> | left | <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the</li> </ul> |
| Property   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| flip       | <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| height     | <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| left       | <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

| Attributes | Description   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |               | parent object's width.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|            | margin-bottom | <p>Specifies the position of the bottom of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> |
|            | margin-left   | <p>Specifies the position of the left of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>    |
|            | margin-right  | <p>Specifies the position of the right of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>  |
|            | margin-top    | <p>Specifies the position of the top of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> </ul>                                                                                                                                                                                                                                                                                             |

| Attributes | Description                      |                                                                                                                                                                                                                                                                                                                                   |
|------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                                  | <ul style="list-style-type: none"> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> |
|            | mso-position-horizontal          | <p>Specifies the horizontal positioning data for objects in WordprocessingML documents. Default is absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• absolute</li> <li>• left</li> <li>• center</li> <li>• right</li> <li>• inside</li> <li>• outside</li> </ul>                                         |
|            | mso-position-horizontal-relative | <p>Specifies relative horizontal position data for objects in WordprocessingML documents. This modifies the mso-position-horizontal property. Default is text. Allowed values are:</p> <ul style="list-style-type: none"> <li>• margin</li> <li>• page</li> <li>• text</li> <li>• char</li> </ul>                                 |
|            | mso-position-vertical            | <p>Specifies the vertical positioning data for objects in WordprocessingML documents. Default is absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• absolute</li> <li>• top</li> <li>• center</li> <li>• bottom</li> <li>• inside</li> <li>• outside</li> </ul>                                           |
|            | mso-position-vertical-relative   | <p>Specifies relative vertical position data for objects in WordprocessingML documents. This modifies the mso-position-vertical property. Default is text. Allowed values are:</p> <ul style="list-style-type: none"> <li>• margin</li> <li>• page</li> </ul>                                                                     |

| Attributes | Description              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                          | <ul style="list-style-type: none"> <li>• text</li> <li>• line</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|            | mso-wrap-distance-bottom | Specifies the distance from the bottom of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.                                                                                                                                                                                                                                                                                                                         |
|            | mso-wrap-distance-left   | Specifies the distance from the left side of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.                                                                                                                                                                                                                                                                                                                      |
|            | mso-wrap-distance-right  | Specifies the distance from the right side of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.                                                                                                                                                                                                                                                                                                                     |
|            | mso-wrap-distance-top    | Specifies the distance from the top of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.                                                                                                                                                                                                                                                                                                                            |
|            | mso-wrap-edited          | Specifies whether the wrap coordinates were customized by the user. If the wrap coordinates are generated by an editor, this property is true; otherwise they were customized by a user. Default is false.                                                                                                                                                                                                                                                                                                                                                                                           |
|            | mso-wrap-style           | <p>Specifies the wrapping mode for text in shapes in WordprocessingML documents. Default is square. Allowed values are:</p> <ul style="list-style-type: none"> <li>• square - Wraps text inside the shape in a square.</li> <li>• none - Text does not wrap.</li> </ul>                                                                                                                                                                                                                                                                                                                              |
|            | position                 | <p>Specifies the kind of positioning used to place an element. Default is static. When the element is contained inside a group, this property shall be absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• static - The element is positioned according to the normal flow of the page. The top and left properties are ignored. If the object is anchored inline, this value is used.</li> <li>• absolute - The element is positioned relative to the parent, using the top and left properties.</li> <li>• relative - The element is positioned according to the</li> </ul> |

| Attributes | Description |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |             | normal flow of the page, but the top and left properties are used. The overlap of overlapping elements is governed by the z-index property.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|            | rotation    | Specifies the angle that a shape is rotated, in degrees. Default is 0. Positive angles are clockwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|            | top         | <p>Specifies the position of the top of the containing block of the shape relative to the element above it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> |
|            | visibility  | <p>Specifies whether a shape is displayed. Only inherit and hidden are used; any other values are mapped to inherit. Default is inherit. Allowed values are:</p> <ul style="list-style-type: none"> <li>• hidden - The shape is not visible, but is still part of the flow of the objects in the browser. Mouse events are not processed.</li> <li>• inherit - The visibility state is inherited from the parent of the shape.</li> </ul>                                                                                                                                                                                                                                                                                                                   |
|            | width       | <p>Specifies the width of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>                                                                                                                                     |
|            | z-index     | <p>Specifies the display order of overlapping shapes. Default is 0. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Uses the order that the shapes appear in the page,</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

| Attributes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Description                                                                                                                                                                                                                                                                                                                                                                                                             |          |             |           |                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                                                                                                                                     |                       |                                                                                                |                       |                                                                                   |                     |                                                                                                                                                                                                                           |                  |                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <p>bottom to top.</p> <ul style="list-style-type: none"> <li>• &lt;order&gt;- A number that represents the stacking precedence. Shapes with higher numbers are placed on top of those with lower numbers. Negative numbers are allowed.</li> </ul>                                                                                                                                                                      |          |             |           |                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                                                                                                                                     |                       |                                                                                                |                       |                                                                                   |                     |                                                                                                                                                                                                                           |                  |                                                                                                                                |
| <p>The following properties are only used by the textbox element (§19.1.2.22):</p> <table border="1"> <thead> <tr> <th data-bbox="418 548 662 594">Property</th><th data-bbox="662 548 1474 594">Description</th></tr> </thead> <tbody> <tr> <td data-bbox="418 594 662 856">direction</td><td data-bbox="662 594 1474 856"> <p>Specifies the direction of the text in the textbox. Default is ltr. This property is superceded by the mso-direction-alt property if that is specified. Allowed values are:</p> <ul style="list-style-type: none"> <li>• ltr - Text is displayed left-to-right.</li> <li>• rtl - Text is displayed right-to-left.</li> </ul> </td></tr> <tr> <td data-bbox="418 856 662 1234">layout-flow</td><td data-bbox="662 856 1474 1234"> <p>Determines the flow of the text layout in a textbox. Default is horizontal. Allowed values are:</p> <ul style="list-style-type: none"> <li>• horizontal - Text is displayed horizontally.</li> <li>• vertical - Text is displayed vertically.</li> <li>• vertical-ideographic - Ideographic text is displayed vertically.</li> <li>• horizontal-ideographic - Ideographic text is displayed horizontally.</li> </ul> </td></tr> <tr> <td data-bbox="418 1234 662 1346">mso-direction-alt</td><td data-bbox="662 1234 1474 1346"> <p>Specifies an alternate direction for text in textboxes. Overrides the direction property. The only allowed value is context.</p> </td></tr> <tr> <td data-bbox="418 1346 662 1457">mso-fit-shape-to-text</td><td data-bbox="662 1346 1474 1457"> <p>Specifies whether the shape stretches to fit the text in the textbox. Default is false.</p> </td></tr> <tr> <td data-bbox="418 1457 662 1568">mso-fit-text-to-shape</td><td data-bbox="662 1457 1474 1568"> <p>Specifies whether the text stretches to fit the textbox. Default is false.</p> </td></tr> <tr> <td data-bbox="418 1568 662 1724">mso-layout-flow-alt</td><td data-bbox="662 1568 1474 1724"> <p>Specifies the alternate layout flow for text in textboxes. This property is used instead of layout-flow when the layout flow is from bottom to top for non-ideographic languages. Its only value is bottom-to-top.</p> </td></tr> <tr> <td data-bbox="418 1724 662 1837">mso-next-textbox</td><td data-bbox="662 1724 1474 1837"> <p>Specifies the ID of the next textbox in a series. Used to keep track of a set of linked textboxes. Default is no value.</p> </td></tr> </tbody> </table> |                                                                                                                                                                                                                                                                                                                                                                                                                         | Property | Description | direction | <p>Specifies the direction of the text in the textbox. Default is ltr. This property is superceded by the mso-direction-alt property if that is specified. Allowed values are:</p> <ul style="list-style-type: none"> <li>• ltr - Text is displayed left-to-right.</li> <li>• rtl - Text is displayed right-to-left.</li> </ul> | layout-flow | <p>Determines the flow of the text layout in a textbox. Default is horizontal. Allowed values are:</p> <ul style="list-style-type: none"> <li>• horizontal - Text is displayed horizontally.</li> <li>• vertical - Text is displayed vertically.</li> <li>• vertical-ideographic - Ideographic text is displayed vertically.</li> <li>• horizontal-ideographic - Ideographic text is displayed horizontally.</li> </ul> | mso-direction-alt | <p>Specifies an alternate direction for text in textboxes. Overrides the direction property. The only allowed value is context.</p> | mso-fit-shape-to-text | <p>Specifies whether the shape stretches to fit the text in the textbox. Default is false.</p> | mso-fit-text-to-shape | <p>Specifies whether the text stretches to fit the textbox. Default is false.</p> | mso-layout-flow-alt | <p>Specifies the alternate layout flow for text in textboxes. This property is used instead of layout-flow when the layout flow is from bottom to top for non-ideographic languages. Its only value is bottom-to-top.</p> | mso-next-textbox | <p>Specifies the ID of the next textbox in a series. Used to keep track of a set of linked textboxes. Default is no value.</p> |
| Property                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                             |          |             |           |                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                                                                                                                                     |                       |                                                                                                |                       |                                                                                   |                     |                                                                                                                                                                                                                           |                  |                                                                                                                                |
| direction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <p>Specifies the direction of the text in the textbox. Default is ltr. This property is superceded by the mso-direction-alt property if that is specified. Allowed values are:</p> <ul style="list-style-type: none"> <li>• ltr - Text is displayed left-to-right.</li> <li>• rtl - Text is displayed right-to-left.</li> </ul>                                                                                         |          |             |           |                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                                                                                                                                     |                       |                                                                                                |                       |                                                                                   |                     |                                                                                                                                                                                                                           |                  |                                                                                                                                |
| layout-flow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p>Determines the flow of the text layout in a textbox. Default is horizontal. Allowed values are:</p> <ul style="list-style-type: none"> <li>• horizontal - Text is displayed horizontally.</li> <li>• vertical - Text is displayed vertically.</li> <li>• vertical-ideographic - Ideographic text is displayed vertically.</li> <li>• horizontal-ideographic - Ideographic text is displayed horizontally.</li> </ul> |          |             |           |                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                                                                                                                                     |                       |                                                                                                |                       |                                                                                   |                     |                                                                                                                                                                                                                           |                  |                                                                                                                                |
| mso-direction-alt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <p>Specifies an alternate direction for text in textboxes. Overrides the direction property. The only allowed value is context.</p>                                                                                                                                                                                                                                                                                     |          |             |           |                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                                                                                                                                     |                       |                                                                                                |                       |                                                                                   |                     |                                                                                                                                                                                                                           |                  |                                                                                                                                |
| mso-fit-shape-to-text                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <p>Specifies whether the shape stretches to fit the text in the textbox. Default is false.</p>                                                                                                                                                                                                                                                                                                                          |          |             |           |                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                                                                                                                                     |                       |                                                                                                |                       |                                                                                   |                     |                                                                                                                                                                                                                           |                  |                                                                                                                                |
| mso-fit-text-to-shape                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <p>Specifies whether the text stretches to fit the textbox. Default is false.</p>                                                                                                                                                                                                                                                                                                                                       |          |             |           |                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                                                                                                                                     |                       |                                                                                                |                       |                                                                                   |                     |                                                                                                                                                                                                                           |                  |                                                                                                                                |
| mso-layout-flow-alt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <p>Specifies the alternate layout flow for text in textboxes. This property is used instead of layout-flow when the layout flow is from bottom to top for non-ideographic languages. Its only value is bottom-to-top.</p>                                                                                                                                                                                               |          |             |           |                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                                                                                                                                     |                       |                                                                                                |                       |                                                                                   |                     |                                                                                                                                                                                                                           |                  |                                                                                                                                |
| mso-next-textbox                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p>Specifies the ID of the next textbox in a series. Used to keep track of a set of linked textboxes. Default is no value.</p>                                                                                                                                                                                                                                                                                          |          |             |           |                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                                                                                                                                     |                       |                                                                                                |                       |                                                                                   |                     |                                                                                                                                                                                                                           |                  |                                                                                                                                |

| Attributes  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                   |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
|             | mso-rotate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Specifies a specific rotation value for text in a textbox. Default is 0. Allowed values are: <ul style="list-style-type: none"><li>• 0</li><li>• 90</li><li>• 180</li><li>• -90</li></ul>                                                                                                                                                                                                                                                                                                                                                                                |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                   |
|             | mso-text-scale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Specifies the scaling factor for fitting text to shapes. Default is 0. This property is only used if mso-fit-text-to-shape is true.                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                   |
|             | v-text-anchor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Specifies the vertical anchoring of text in a textbox. Default is top. The alignment of a text anchor only becomes evident if mso-fit-text-to-shape is false. This property is different from the vertical-align CSS property, which is used for ideographic languages. Allowed values are: <ul style="list-style-type: none"><li>• top</li><li>• middle</li><li>• bottom</li><li>• top-center</li><li>• middle-center</li><li>• bottom-center</li><li>• top-baseline</li><li>• bottom-baseline</li><li>• top-center-baseline</li><li>• bottom-center-baseline</li></ul> |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                   |
|             | The following properties are only used by the textpath element (§19.1.2.23):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                   |
|             | <table><tr><th>Property</th><th>Description</th></tr><tr><td>font</td><td>Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family.</td></tr><tr><td>font-family</td><td>Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property.</td></tr><tr><td>font-size</td><td>Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property.</td></tr><tr><td>font-style</td><td>Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are:</td></tr></table> | Property                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Description | font | Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family. | font-family | Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property. | font-size | Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property. | font-style | Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are: |
| Property    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                   |
| font        | Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                   |
| font-family | Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                   |
| font-size   | Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                   |
| font-style  | Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                   |



| Attributes      | Description                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|--------|----------------------|---------|-----|-----|-----|-----|------|------------------|--------|-----|-----|-----|-----|-----|
|                 |                                                                                                                                                                                                                  | <ul style="list-style-type: none"><li>• normal</li><li>• italic</li><li>• oblique - Treated the same as italic.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|                 | font-variant                                                                                                                                                                                                     | <p>Specifies the variant style of a font. Default is normal. The values are the same as those of the CSS font-variant property. Allowed values are:</p> <ul style="list-style-type: none"><li>• normal</li><li>• small-caps</li></ul>                                                                                                                                                                                                                                                                                                                                                                    |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|                 | font-weight                                                                                                                                                                                                      | <p>Specifies the thickness of the letters of the font. Default is normal. The values are the same as those of the CSS font-weight property. Allowed values are:</p> <table><tr><th>Value</th><th>Description</th></tr><tr><td>normal</td><td rowspan="6">Treated as non-bold.</td></tr><tr><td>lighter</td></tr><tr><td>100</td></tr><tr><td>200</td></tr><tr><td>300</td></tr><tr><td>400</td></tr><tr><td>bold</td><td rowspan="7">Treated as bold.</td></tr><tr><td>bolder</td></tr><tr><td>500</td></tr><tr><td>600</td></tr><tr><td>700</td></tr><tr><td>800</td></tr><tr><td>900</td></tr></table> | Value | Description | normal | Treated as non-bold. | lighter | 100 | 200 | 300 | 400 | bold | Treated as bold. | bolder | 500 | 600 | 700 | 800 | 900 |
|                 | Value                                                                                                                                                                                                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|                 | normal                                                                                                                                                                                                           | Treated as non-bold.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| lighter         |                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 100             |                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 200             |                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 300             |                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 400             |                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| bold            | Treated as bold.                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| bolder          |                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 500             |                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 600             |                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 700             |                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 800             |                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 900             |                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| mso-text-shadow | <p>Specifies whether a shadow is applied to the text on a text path. Default is false.</p>                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| text-decoration | <p>Specifies the style of text decoration. Default is none. The values are the same as those of the CSS text-decoration property. Allowed values are:</p> <ul style="list-style-type: none"><li>• none</li></ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |

| Attributes                                                                                                                                                                                                                     | Description           |                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                |                       | <ul style="list-style-type: none"> <li>• underline</li> <li>• overline</li> <li>• line-through</li> <li>• blink</li> </ul>                                                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                                | v-rotate-letters      | Specifies whether the letters of the text are rotated counterclockwise by 90 degrees. Default is false.                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                | v-same-letter-heights | Specifies whether all letters are the same height regardless of initial case. If true, the lowercase letters are stretched to the height of the uppercase letters. Default is false.                                                                                                                                                                                                   |
|                                                                                                                                                                                                                                | v-text-align          | <p>Specifies the alignment of text. Default is left. Allowed values are:</p> <ul style="list-style-type: none"> <li>• left</li> <li>• right</li> <li>• center</li> <li>• justify</li> <li>• letter-justify - Distributes the extra space between the letters.</li> <li>• stretch-justify - Stretches the letters to fill in the space.</li> </ul>                                      |
|                                                                                                                                                                                                                                | v-text-kern           | Specifies whether kerning is turned on. Default is false.                                                                                                                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                | v-text-reverse        | Specifies whether the layout order of rows is reversed. Default is false. This is used for vertical text layout.                                                                                                                                                                                                                                                                       |
|                                                                                                                                                                                                                                | v-text-spacing-mode   | <p>Specifies the mode for letter spacing. Default is tightening. This property determines whether space is removed between each letter (tightening) or added between each letter (tracking). The amount of letter spacing change is defined by the v-text-spacing property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• tightening</li> <li>• tracking</li> </ul> |
|                                                                                                                                                                                                                                | v-text-spacing        | Specifies the amount of spacing for text in 100ths of single line spacing. Default is 100.                                                                                                                                                                                                                                                                                             |
| <p>The line (§19.1.2.12), polyline (§19.1.2.15) and curve (§19.1.2.3) elements ignore the following properties:</p> <ul style="list-style-type: none"> <li>• top</li> <li>• left</li> <li>• width</li> <li>• height</li> </ul> |                       |                                                                                                                                                                                                                                                                                                                                                                                        |

| Attributes                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|--------------|----------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------|
|                                   | <p>The following properties are not inherited by an element that references a shapetype element (§19.1.2.20) via the id attribute:</p> <ul style="list-style-type: none"> <li>• flip</li> <li>• height</li> <li>• left</li> <li>• margin-left</li> <li>• margin-top</li> <li>• position</li> <li>• rotation</li> <li>• top</li> <li>• visibility</li> <li>• width</li> <li>• z-index</li> </ul> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| target (Hyperlink Display Target) | <p>Specifies a frame or window that a URL is displayed in. Default is no value. Allowed values are:</p> <table border="1" data-bbox="415 1031 1479 1667"> <thead> <tr> <th>Value</th><th>Description</th></tr> </thead> <tbody> <tr> <td>&lt;targetname&gt;</td><td>String containing the name of the frame or window in which to load the document.</td></tr> <tr> <td>_blank</td><td>Specifies that the linked document is loaded into a new blank window. This window is not named.</td></tr> <tr> <td>_media</td><td>Specifies that the linked document is loaded into the browser's multimedia pane.</td></tr> <tr> <td>_parent</td><td>Specifies that the linked document is loaded into the immediate parent of the document containing the link.</td></tr> <tr> <td>_search</td><td>Specifies that the linked document is loaded into the browser's search pane.</td></tr> <tr> <td>_self</td><td>Specifies that the linked document is loaded into the window in which the link was clicked (the active window).</td></tr> <tr> <td>_top</td><td>Specifies that the linked document is loaded into the topmost window.</td></tr> </tbody> </table> <p>[Example:</p> <pre>&lt;v:shape ...   href="http://www.openxmlformats.org"   target="_self" ... &gt;</pre> | Value | Description | <targetname> | String containing the name of the frame or window in which to load the document. | _blank | Specifies that the linked document is loaded into a new blank window. This window is not named. | _media | Specifies that the linked document is loaded into the browser's multimedia pane. | _parent | Specifies that the linked document is loaded into the immediate parent of the document containing the link. | _search | Specifies that the linked document is loaded into the browser's search pane. | _self | Specifies that the linked document is loaded into the window in which the link was clicked (the active window). | _top | Specifies that the linked document is loaded into the topmost window. |
| Value                             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| <targetname>                      | String containing the name of the frame or window in which to load the document.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| _blank                            | Specifies that the linked document is loaded into a new blank window. This window is not named.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| _media                            | Specifies that the linked document is loaded into the browser's multimedia pane.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| _parent                           | Specifies that the linked document is loaded into the immediate parent of the document containing the link.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| _search                           | Specifies that the linked document is loaded into the browser's search pane.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| _self                             | Specifies that the linked document is loaded into the window in which the link was clicked (the active window).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| _top                              | Specifies that the linked document is loaded into the topmost window.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |

| Attributes                                                                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                         | <p>&lt;/v:shape&gt;</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                           |
| <p>title (Shape Title)</p>                                                                              | <p>Specifies the text displayed when the mouse pointer moves over the shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... title="tooltip" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                       |
| <p>userdrawn (Exists In Master Slide)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether the user has added the shape to a master slide. Default is false. Used by PresentationML.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:userdrawn="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                 |
| <p>userhidden (Hide Script Anchors)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>   | <p>Specifies whether a script anchor is hidden. Default is false. If true, script anchors stay hidden even if the shape is otherwise visible. A script anchor is the visual representation of a script that when displayed in an application.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:userhidden="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <p>wrapcoords (Shape Bounding Polygon)</p>                                                              | <p>Specifies the bounding polygon that surrounds a shape. This is specified using a comma-delimited list of x and y coordinates: "x1,y1,x2,y2,x3,y3,..." This is used when text is</p>                                                                                                                                                                                                                                                                                        |

| Attributes | Description                                                                                                                                                                                                                                                                                                                                                                                  |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <p>tightly wrapped around a shape. Default is no value until the mso-wrap-mode style attribute is set to <code>tight</code> or <code>through</code>.</p> <p>[Example:</p> <pre>&lt;v:shape ...   wrapcoords="0,0 0,200, 200,200, 200,0" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |

[Note: The W3C XML Schema definition of this element's content model ([CT\\_Image](#)) is located in §A.6.1. end note]

#### 19.1.2.11 imagedata (Image Data)

This element is used to draw an image that has been loaded from an external source. There is an implied rectangle that is the same size as the image. Any stroke or fill is applied to this implied rectangle. The stroke is drawn on top of the image. The fill is behind the image and therefore only visible through transparent areas of the image. Image transparency is either encoded in the file or defined via a color value using the chromakey attribute. Unlike the image element (§19.1.2.10), the imagedata element shall have a parent element.

[Example:

```
<v:shape style="position:relative;top:1;left:1;width:50;height:50"
  path="m 0,0 l 1000,0 1000,1000 0,1000 x e" fillcolor="blue">
  <v:imagedata src="myimage.gif"/>
</v:shape>
```



end example]

| Parent Elements                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arc (§19.1.2.1); background (Part 1, §17.2.1); curve (§19.1.2.3); group (§19.1.2.7); image (§19.1.2.10); line (§19.1.2.12); object (Part 1, §17.3.3.19); oval (§19.1.2.13); pict (§14.2.2.2); pict (§14.5.1); polyline (§19.1.2.15); rect (§19.1.2.16); roundrect (§19.1.2.17); shape (§19.1.2.19); shapetype (§19.1.2.20) |

| Attributes                                                                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>althref</b> (Alternate Image Reference)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | Defines an alternate reference for an image in Macintosh PICT format.<br><br><i>[Example:</i><br><pre>&lt;v:imagedata ... althref="myimage.pcz" ... &gt; &lt;/v:imagedata&gt;</pre> <i>end example]</i><br><br>The possible values for this attribute are defined by the W3C XML Schema string datatype.                                                                                                                                                                                                                                 |
| <b>bilevel</b> (Image Bilevel Toggle)                                                                   | Specifies that all colors in the picture shall be converted to either 0 or full intensity component values. This converts a color bitmap to 8 colors and a grayscale bitmap to black and white. Default is <i>false</i> .<br><br><i>[Example:</i><br><pre>&lt;v:image ... bilevel="true" ...&gt; &lt;/v:image&gt;</pre> <br><i>end example]</i><br><br>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5). |
| <b>blacklevel</b> (Image Brightness)                                                                    | Specifies the image brightness. Default is 0.<br><br><i>[Example:</i><br><pre>&lt;v:image ... blacklevel="0.1" ...&gt; &lt;/v:image&gt;</pre> <br><i>end example]</i><br><br>The possible values for this attribute are defined by the W3C XML Schema string datatype.                                                                                                                                                                                |
| <b>chromakey</b> (Image Transparency Color)                                                             | Specifies a color value that is transparent and show anything behind the shape. Default is no value.                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| Attributes                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                       | <p>[Example:</p> <pre>&lt;v:image ... chromakey="white" ...&gt; &lt;/v:image&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p>                                                                                                                                                                                                                                                                                                                                                   |
| <p>cropbottom (Image Bottom Crop)</p> | <p>Specifies the how much to crop the image from the bottom up as a fraction of picture size. Default is 0. This numeric value can also be specified in 1/65536-ths if a trailing "f" is supplied. For example, a value of "52429f" represents 52429/65536 or 0.8.</p> <p>[Example:</p> <pre>&lt;v:image ... cropbottom="10%" ...&gt; &lt;/v:image&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <p>cropleft (Image Left Crop)</p>     | <p>Specifies how much to crop the image from the left in as a fraction of picture size. Default is 0. This numeric value can also be specified in 1/65536-ths if a trailing "f" is supplied. For example, a value of "52429f" represents 52429/65536 or 0.8.</p> <p>[Example:</p> <pre>&lt;v:image ... cropleft="10%" ...&gt; &lt;/v:image&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>       |
| <p>cropright (Image Right Crop)</p>   | <p>Specifies how much to crop the image from the right in as a fraction of picture size. Default is 0. This numeric value can also be specified in 1/65536-ths if a trailing "f" is supplied. [Example: For example, a value of "52429f" represents 52429/65536 or 0.8.</p>                                                                                                                                                                                                                                                                                         |

| Attributes                                                                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                            | <p><i>end example]</i></p> <p>[Example:</p> <pre>&lt;v:image ... cropright="10%" ...&gt; &lt;/v:image&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                      |
| <p>croptop (Image Top Crop)</p>                                                                            | <p>Specifies how much to crop the image from the top down as a fraction of picture size. Default is 0. This numeric value can also be specified in 1/65536-ths if a trailing "f" is supplied. [Example: For example, a value of "52429f" represents 52429/65536 or 0.8. <i>end example]</i></p> <p>[Example:</p> <pre>&lt;v:image ... croptop="10%" ...&gt; &lt;/v:image&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <p>detectmouseclick (Detect Mouse Click)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether a mouse click is detected on the fill of a shape.</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <p>embosscolor (Embossed Color)</p>                                                                        | <p>Specifies the color to use to create an embossed effect in the image. Default is no value. This can be set to a percentage of the shadow color to create an embossed picture effect.</p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p>                                                                                                                                                                                                                                                                                                 |



| Attributes                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| gain (Image Intensity)             | <p>Specifies an adjustment for the intensity of all colors. Essentially sets how bright white is. Default is 1.</p> <p>[Example:</p> <pre>&lt;v:image ... gain="0.5" ...&gt; &lt;/v:image&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                  |
| gamma (Image Gamma Correction)     | <p>Specifies the gamma correction. Default is 1.</p> <p>Gamma correction is a factor by which the intended target display gamma differs from the sRGB profile. It can be used to correct for images not prepared for sRGB displays and to adjust overall image contrast. Decreasing it below 1 gives a higher contrast image.</p> <p>[Example:</p> <pre>&lt;v:image ... gamma="0.5" ...&gt; &lt;/v:image&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| grayscale (Image Grayscale Toggle) | <p>Specifies to display the image in grayscale. Default is false.</p> <p>[Example:</p> <pre>&lt;v:image ... gamma="0.5" ...&gt; &lt;/v:image&gt;</pre>                                                                                                                                                                                                                                                                                                                                                                                   |

| Attributes                                                                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                     | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p>href (Explicit Relationship to Hyperlink Target)</p> <p>Namespace:<br/>.../officeDocument/2006/relationships</p> | <p>Specifies the relationship ID of the relationship to the hyperlink used for this VML object. The specified relationship shall be of type <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/image">http://schemas.openxmlformats.org/officeDocument/2006/relationships/image</a> or the document shall be considered non-conformant.</p> <p>[Example: The markup specifies the associated relationship part with relationship ID rId10 contains the corresponding relationship information for the image data:</p> <pre>&lt; ... r:href="rId5" /&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |
| <p>href (Original Image Reference)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>                | <p>Specifies the URL to the original image file. Used only if the picture has been linked and embedded. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:fill ... o:href="myImage.gif" ... &gt; &lt;/v:fill&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                  |
| <p>id (Explicit Relationship to Image Data)</p> <p>Namespace:<br/>.../officeDocument/2006/relationships</p>         | <p>Specifies the relationship ID of the relationship to the image used for this VML object. The specified relationship shall be of type <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/image">http://schemas.openxmlformats.org/officeDocument/2006/relationships/image</a> or the document shall be considered non-conformant.</p> <p>[Example: The markup specifies the associated relationship part with relationship ID rId10 contains the corresponding relationship information for the image data:</p> <pre>&lt; ... r:id="rId10" /&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p>      |
| <p>id (Unique</p>                                                                                                   | <p>Specifies a unique identifier that can be used to reference a VML object.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

| Attributes                                                                                                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Identifier)                                                                                                     | <p>Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... id="myShape" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| movie (Movie Reference)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office                            | <p>Specifies a pointer to a movie image. This is a data block that contains a pointer to a pointer to movie data.</p> <p>[Example:</p> <pre>&lt;v:imagedata ... o:movie="1434" ...&gt; &lt;/v:imagedata&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema float datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| oleid (Image Embedded Object ID)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office                   | <p>Specifies the embedded object ID of an image.</p> <p>The possible values for this attribute are defined by the W3C XML Schema float datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| pict (Explicit Relationship to Alternate Image Data)<br><br>Namespace:<br>.../officeDocument/2006/relationships | <p>Specifies the relationship ID of the relationship to an alternate format image used for this VML object. The specified relationship shall be of type <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/image">http://schemas.openxmlformats.org/officeDocument/2006/relationships/image</a> or the document shall be considered non-conformant.</p> <p>If this attribute is specified, the application should attempt to display the image defined by the relationship. If the application cannot display the format of that image, the r:id attribute is used.</p> <p>[Example: The markup specifies the associated relationship part with relationship ID rId7 contains the corresponding relationship information for the image data. The relationship part with relationship ID rId10 is used if the application cannot display the image referenced by rId7.:]</p> |

| Attributes                                                                                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                   | <p>&lt; ... r:id="rId10" r:pict="rId7"/&gt;</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p>recolortarget (Black Recoloring Color)</p>                                                     | <p>Specifies the color to which black should be recolored.</p> <p>[Example:</p> <p>&lt;v:imagedata r:id="rId4" recolortarget="red"&gt;<br/>&lt;/v:imagedata&gt;</p> <div data-bbox="451 716 553 821">  <p>no recolor</p> </div> <div data-bbox="451 831 553 936">  <p>recolortarget="red"</p> </div> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p>                                                                                                        |
| <p>relid (Relationship to Part)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies the relationship ID of the relationship to the image. The specified relationship shall be of type <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/image">http://schemas.openxmlformats.org/officeDocument/2006/relationships/image</a> or the document shall be considered non-conformant.</p> <p>[Example: The markup specifies the associated relationship part with relationship ID rId10 contains the corresponding relationship information:</p> <p>&lt;v:imagedata ... o:relid="rId10" ...&gt;<br/>&lt;/v:imagedata&gt;</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |
| <p>src (Image Source)</p>                                                                         | <p>Specifies the URL of the image to use.</p> <p>[Example:</p> <p>&lt;v:image ... src="myimage.gif" ...&gt;<br/>&lt;/v:image&gt;</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

| Attributes                                                                                    | Description                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                               |  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                         |
| <p>title (Image Data Title)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies the title of an embedded image. This is typically set to the comment property of the image, which is often blank.</p> <p>[Example:</p> <pre>&lt;v:fill ... o:title="alt text" ... &gt; &lt;/v:fill&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |

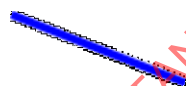
[Note: The W3C XML Schema definition of this element's content model (CT\_ImageData) is located in §A.6.1.  
*end note]*

#### 19.1.2.12 line (Line)

This element draws a straight line.

[Example:

```
<v:line from="10pt,10pt" to="75pt,35pt"
strokecolor="blue" strokeweight="3pt">
</v:line>
```



*end example]*

| Parent Elements                                                                                                |
|----------------------------------------------------------------------------------------------------------------|
| background (Part 1, §17.2.1); group (§19.1.2.7); object (Part 1, §17.3.3.19); pict (§14.2.2.2); pict (§14.5.1) |

| Child Elements                         | Subclause  |
|----------------------------------------|------------|
| anchorlock (Anchor Location Is Locked) | §19.3.2.1  |
| borderbottom (Bottom Border)           | §19.3.2.2  |
| borderleft (Left Border)               | §19.3.2.3  |
| borderright (Right Border)             | §19.3.2.4  |
| bordertop (Top Border)                 | §19.3.2.5  |
| callout (Callout)                      | §19.2.2.2  |
| ClientData (Attached Object Data)      | §19.4.2.12 |
| clippath (Shape Clipping Path)         | §19.2.2.3  |
| extrusion (3D Extrusion)               | §19.2.2.11 |
| fill (Shape Fill Properties)           | §19.1.2.5  |
| formulas (Set of Formulas)             | §19.1.2.6  |
| handles (Set of Handles)               | §19.1.2.9  |
| imagedata (Image Data)                 | §19.1.2.11 |
| lock (Shape Protections)               | §19.2.2.18 |
| path (Shape Path)                      | §19.1.2.14 |
| shadow (Shadow Effect)                 | §19.1.2.18 |
| signatureline (Digital Signature Line) | §19.2.2.30 |
| skew (Skew Transform)                  | §19.2.2.31 |
| stroke (Line Stroke Settings)          | §19.1.2.21 |
| textbox (Text Box)                     | §19.1.2.22 |
| textdata (VML Diagram Text)            | §19.5.2.2  |
| textpath (Text Layout Path)            | §19.1.2.23 |
| wrap (Text Wrapping)                   | §19.3.2.6  |

| Attributes                                            | Description                                                                                                                                                                                                           |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| allowincell (Allow in Table Cell)                     | Specifies whether a shape can be placed in a table. Default is false.                                                                                                                                                 |
| Namespace:<br>urn:schemas-microsoft-com:office:office | <p>[Example:</p> <pre>&lt;v:shape ... o:allowincell="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |

| Attributes                                                                                                       | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>allowoverlap<br/>(Allow Shape Overlap)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>      | <p>Specifies whether a shape can overlap another shape. Default is true. If false, the shape shifts left or right so as not to overlap another shape, similar to the behavior of the HTML float attribute.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:allowoverlap="false" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                   |
| <p>alt (Alternate Text)</p>                                                                                      | <p>Specifies alternative text describing the graphical object. This text should provide a brief description of the shape for use by accessibility tools. Default is no value.</p> <p>[Example: The alt text describes the basic shape:</p> <pre>&lt;v:shape ... fillcolor="red" alt="Red rectangle"&gt; &lt;/v:shape&gt;</pre> <p>The alt text describes the contents of a shape displaying an image:</p> <pre>&lt;v:shape ... alt="Picture of a sunset"&gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <p>borderbottomcolor<br/>(Bottom Border Color)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies the bottom border color of an inline shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:borderbottomcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                   |
| <p>borderleftcolor<br/>(Border Left Color)</p>                                                                   | <p>Specifies the left border color of an inline shape. Default is no value.</p> <p>[Example:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

| Attributes                                                                                                   | Description                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Namespace:<br>urn:schemas-microsoft-com:office:office                                                        | <pre>&lt;v:shape ... o:borderleftcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                    |
| <b>borderrightcolor</b><br>(Border Right Color)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies the right border color of an inline shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:borderrightcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <b>bordertopcolor</b><br>(Border Top Color)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office     | <p>Specifies the top border color of an inline shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:bordertopcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>     |
| <b>bullet</b> (Graphical Bullet)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office                | <p>Specifies whether the shape is a graphical bullet. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:bullet="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>         |
| <b>button</b> (Button Behavior Toggle)<br><br>Namespace:                                                     | <p>Specifies whether a shape exhibits button press behavior on click. Default is false.</p> <p>[Example:</p>                                                                                                                                                                                                |



| Attributes                                                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| urn:schemas-microsoft-com:office:office                                                             | <pre>&lt;v:shape ... o:button="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| bwmode (Black-and-White Mode)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office          | <p>Specifies how a shape renders for black-and-white output devices. When a shape is printed on a black-and-white printer or displayed in a black-and-white view in an application, several options are possible. Default is auto, which uses o:bwnormal for normal black-and-white rendering and o:bwpure for pure black-and-white rendering.</p> <p>bwnormal and bwpure are subordinate to bwmode. If bwmode is "auto" then the value for bwnormal or bwpure is used depending on what the output format is. An application can define for itself what, if any, difference there is between normal B&amp;W and pure B&amp;W. [Example: Normal B&amp;W might allow greyscale and pure B&amp;W might not. <i>end example]</i></p> <p>[Example: This shape renders in grayscale in a black-and-white environment:</p> <pre>&lt;v:shape ... o:bwmode="grayscale" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3).</p> |
| bwnormal (Normal Black-and-White Mode)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies the black-and-white mode for normal black-and-white output devices. Default is auto.</p> <p>[Example: This shape renders in a pale grayscale in a normal black-and-white environment:</p> <pre>&lt;v:shape ... o:bwmode="auto" o:bwnormal="lightgrayscale" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| bwpure (Pure Black-and-White Mode)<br><br>Namespace:<br>urn:schemas-                                | <p>Specifies the black-and-white mode for pure black-and-white output devices. Default is auto.</p> <p>[Example: This shape renders in high contrast when in a pure black-and-white environment:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| Attributes                                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| microsoft-com:office:office                                                         | <pre>&lt;v:shape ... o:bwmode="auto" o:bwpure="highcontrast" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3).</p>                                                                                                                                                                                                                                                                           |
| chromakey (Image Transparency Color)                                                | <p>Specifies a color value that is transparent and show anything behind the shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:image ... chromakey="white" ...&gt; &lt;/v:image&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p>                                                                                                                                                                  |
| class (CSS Reference)                                                               | <p>Specifies a reference to the definition of a CSS style. Default is no value.</p> <p>[Example: The snippets below are equivalent:</p> <pre>... .narrowstyle {width:50;height:100} ... &lt;v:shape ... class="narrowstyle"   style="top:1;left:1"&gt; &lt;/v:shape&gt;</pre> <pre>&lt;v:shape ... style="top:1;left:1;   width:50;height:100"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| clip (Clipping Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies that the clipping region is active. This is used in conjunction with the clippath (§19.2.2.3) element to create a clipping region.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:clip="true"&gt; &lt;/v:shape&gt;</pre>                                                                                                                                                                                                                                                                    |

| Attributes                                                                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                            | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <p>cliptowrap (Clip to Wrapping Polygon)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies that the clipping region for the shape aligns with the wrapping polygon that tightly surrounds the entire shape (essentially, that the shape shall not be drawn beyond its wrapping polygon's extents – if it does, the shape shall be clipped). Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:cliptowrap="true"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <p>connectortype (Shape Connector Type)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>  | <p>Specifies the kind of connector used for joining shapes. Default is straight.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:connectortype="elbow" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ConnectorType simple type (§19.2.3.7).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <p>coordorigin (Coordinate Space Origin)</p>                                                               | <p>Specifies the coordinate of the top left corner of the shape's coordinate space. This determines the position of the (0,0) coordinate space origin within the shape's bounding box. Default is "0,0", which places the (0,0) origin at the top left corner of the bounding box.</p> <p>This affects shape properties that specify coordinate positions, such as the path attribute. Thus a path can be defined against a generic (0,0) origin and the coordorigin value translates the entire path within the shape's bounding space.</p> <p>[Example: The horizontal and vertical coordinate space ranges from -100 to +100 because the coordinate space (coordsize) is 200 by 200 and the top left coordinate is (-100,-100). The (0,0) origin lies at the center of the shape's bounding box, as evidenced by the position of the shape's path within the coordinate space:</p> <pre>&lt;v:shape ... coordsize="200,200" coordorigin="-100,-100"</pre> |

| Attributes                                                                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                            | <pre>path="m 0,0 1 0,50, 50,50, 50,0 x e"&gt; &lt;/v:shape&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| coordsize<br>(Coordinate Space Size)                                                                       | <p>Specifies the size of the shape's coordinate space in coordinate units. Default is "1000,1000".</p> <p>The physical size of a coordinate unit length is determined by both the size of the coordinate space (coordsize) and the size of the shape (style width and height). The coordsize attribute defines the number of horizontal and vertical subdivisions into which the shape's bounding box is divided. The combination of coordsize and style width/height effective scales the shape anisotropically.</p> <p>[Example: The path is 50 units wide and tall, which is 25% of the size of the coordinate space:</p> <pre>&lt;v:shape ... coordsize="200,200" coordorigin="-100,-100" path="m 0,0 1 0,50, 50,50, 50,0 x e"&gt; &lt;/v:shape&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| dgmlayout<br>(Diagram Node Layout Identifier)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies the kind of automatic layout to apply to the diagram node. This is only meaningful if the shape is a node in an organization chart, which is denoted by the orgchart value of the editas attribute of the group element.</p> <p>[Example:</p> <pre>&lt;v:shape ... dgmlayout="1"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

| Attributes                                                                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                             | The possible values for this attribute are defined by the ST_DiagramLayout simple type (§19.2.3.10).                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>dgmlayoutmru</b><br>(Diagram Node Recent Layout Identifier)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies the kind of automatic layout most recently used on the child elements of the diagram node. This is only meaningful if the shape is a node in an organization chart, which is denoted by the orgchart value of the editas attribute of the group element.</p> <p>[Example:</p> <pre>&lt;v:shape ... dgmlayout="1"&gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_DiagramLayout simple type (§19.2.3.10).</p> |
| <b>dgmnodekind</b><br>(Diagram Node Identifier)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office                | <p>Specifies an optional, application-defined parameter that is intended to be used by the application to tag different types of nodes in a diagram.</p> <p>[Example:</p> <pre>&lt;v:shape ... dgmnodekind="1"&gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema integer datatype.</p>                                                                                                                          |
| <b>doubleclicknotify</b><br>(Double-click Notification Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies that an event message is sent when a shape is double-clicked. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:doubleclicknotify="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                             |
| <b>fillcolor</b> (Fill Color)                                                                                               | <p>Specifies the color to use for the fill. Default is white. If the fill element (§19.1.2.5) is present, its color attribute takes precedence. Colors are typically specified as either a named color, such as red, or six hexadecimal digits representing the red, green and blue values of the color, such as #00FF30. Full details are specified in the simple type description.</p>                                                                                                 |

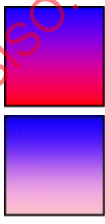
| Attributes                                                                                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                       | <p>[Example: This shape is red if its fill is visible:</p> <pre>&lt;v:shape ... fillcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p>This is equivalent to:</p> <pre>&lt;v:shape ... fillcolor="#ff0000" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p>                                                                                            |
| <p>filled (Shape Fill Toggle)</p>                                                                     | <p>Specifies whether the closed path is filled. Default is true. This attribute is overridden by the fill on attribute.</p> <p>[Example:</p> <pre>&lt;v:shape ... filled="f" fillcolor="red" ...&gt; &lt;/v:shape&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                   |
| <p>forcedash (Force Dashed Outline)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether a dashed outline is used to draw a shape when a shape has no line or fill. Default is false.</p> <p>Used by PresentationML placeholders to draw a dashed outline when there is no line and no fill for a shape.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:forcedash="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |

| Attributes                                                                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>from</b> (Line Start)                                                                                | <p>Specifies the starting point of the line in the coordinate space of the parent element. Default is "0,0". If the parent is not a VML element, the default unit is a pixel. Allowed units are in, cm, mm, pt, pc and px.</p> <p>[Example:</p> <pre>&lt;v:line from="10pt,10pt" to="50pt,50pt"&gt; &lt;/v:line&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <b>hr</b> (Horizontal Rule Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office         | <p>Specifies that a shape is a horizontal rule. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hr="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                               |
| <b>hralign</b> (Horizontal Rule Alignment)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies the alignment of a horizontal rule. Default is left.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hralign="center" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_HrAlign simple type (§19.2.3.16).</p>                                                                                                                                                                                                                                         |
| <b>href</b> (Hyperlink Target)                                                                          | <p>Specifies a hyperlink URL target for the shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... href="http://www.openxmlformats.org" ... &gt; &lt;/v:shape&gt;</pre>                                                                                                                                                                                                                                                                                                                                           |

| Attributes                                                                                                             | Description                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                        | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                       |
| <p>hrnoshade<br/>(Horizontal Rule 3D Shading Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies that the horizontal rule does not have 3-D shading. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hrnoshade="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                 |
| <p>hrpct (Horizontal Rule Length Percentage)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>         | <p>Specifies the length of a horizontal rule as a percentage of page width. Default is 0.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hrpct="85" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema float datatype.</p>                                       |
| <p>hrstd (Horizontal Rule Standard Display Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>   | <p>Specifies whether a shape is displayed as a standard horizontal rule. Only applies if hr is true. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hrstd="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <p>id (Unique Identifier)</p>                                                                                          | <p>Specifies a unique identifier that can be used to reference a VML object.</p> <p>Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... id="myShape" ... &gt;</pre>                                                                                                                                                                    |



| Attributes                                                                                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                   | <p>&lt;/v:shape&gt;</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                  |
| <p>insetmode (Text Inset Mode)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>  | <p>Specifies whether the application calculates the internal text margin instead of using the inset attribute. Default is custom. This attribute is only meaningful for text boxes.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:insetmode="auto" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_InsetMode simple type (§19.2.3.17).</p>                  |
| <p>insetpen (Inset Border From Path)</p>                                                          | <p>Specifies that the border shall be displayed inside of the path defining the shape, rather than along the path (the default border placement), or outside of the path as might be done with an image.</p> <p>[Example:</p> <pre>&lt;v:shape ... insetpen="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <p>ole (Embedded Object Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether the shape is an embedded object. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:ole="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalseBlank simple type (§20.1.2.6).</p>                                                                                                                                |
| <p>oleicon (Embedded Object Icon Toggle)</p>                                                      | <p>Specifies whether an embedded object is displayed as an icon. Default is false.</p> <p>[Example:</p>                                                                                                                                                                                                                                                                                                                              |

| Attributes                                                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Namespace:<br>urn:schemas-microsoft-com:office:office                                   | <pre>&lt;v:shape ... o:oleicon="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| oned (Shape Handle Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies whether the extra handles of a shape are hidden. If true, hides all shape handles except the top left and bottom right; that is, the same handles that are used for a straight line segment. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:oned="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| opacity (Fill Color Opacity)                                                            | <p>Specifies the opacity of the primary fill color. Default is 1.0. This numeric value can also be specified in 1/65536ths if a trailing "f" is supplied. [Example: A value of "52429f" represents 52429/65536 or 0.8. <i>end example]</i></p> <p>[Example: The red color is 25% opaque:</p> <pre>&lt;v:fill type="gradient" color="red" color2="blue" opacity=".25"&gt; &lt;/v:fill&gt;</pre> <div data-bbox="451 1360 779 1581">  <p>opacity="1"</p> <p>opacity=".25"</p> </div> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| preferrelative (Relative Resize Toggle)                                                 | <p>Specifies whether the original size of an object is saved after reformatting. Default is false. If true, the original size of the object is stored and all resizing is based on a percentage of that original size. Otherwise, each resizing resets the scale to 100%.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| Attributes                                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Namespace:<br>urn:schemas-microsoft-com:office:office                               | <p>[Example:</p> <pre>&lt;v:shape ... o:preferrelative="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                      |
| print (Print Toggle)                                                                | <p>Specifies whether the shape is printed. Default is true.</p> <p>[Example:</p> <pre>&lt;v:shape ... print="false" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                |
| regroupid (Regroup ID)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies a previous group for a shape. An ID number is used to identify groups of shapes that are no longer grouped. This allows shapes to be regrouped programmatically.</p> <p>[Example: The shape was part of a group identified by the ID 040754:</p> <pre>&lt;v:shape ... o:regroupid="040754" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema integer datatype.</p> |
| spid (Optional String)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies an optional string that an application can use to identify the particular shape. Default is no value.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                       |
| spt (Optional Number)<br><br>Namespace:<br>urn:schemas-                             | <p>Specifies an optional number that an application can use to associate the particular shape with a defined shape type. Default is 0.</p> <p>The possible values for this attribute are defined by the W3C XML Schema float datatype.</p>                                                                                                                                                                                                                    |

| Attributes                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| microsoft-com:office:office        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| strokecolor (Shape Stroke Color)   | <p>Specifies the primary color of the brush to use to stroke the path of the shape. Default is black. The color attribute of the stroke element (§19.1.2.21) overrides this. Colors are typically specified as either a named color, such as red, or six hexadecimal digits representing the red, green and blue values of the color, such as #00FF30. Full details are specified in the simple type description.</p> <p>[Example:</p> <pre>&lt;v:shape ... strokecolor="red" ...&gt; &lt;/v:shape&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p> |
| stroked (Shape Stroke Toggle)      | <p>Specifies whether the path defining the shape is stroked with a solid line. The stroke element (§19.1.2.21) defines other strokes. The on attribute of the stroke element overrides this attribute. Default is true.</p> <p>[Example:</p> <pre>&lt;v:shape ... fillcolor="red" stroked="false" strokecolor="blue"...&gt; &lt;/v:shape&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                         |
| strokeweight (Shape Stroke Weight) | <p>Specifies the width of the brush to use to stroke the path. Default is 1 point. If a number is given without units, the emu is used. The weight attribute of the stroke element (§19.1.2.21) overrides this attribute.</p> <p>[Example:</p> <pre>&lt;v:shape ... strokeweight="3pt" ... &gt;</pre>                                                                                                                                                                                                                                                                                                                                                                                                                     |

| Attributes                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                     | <p data-bbox="456 247 613 279">&lt;/v:shape&gt;</p>  <p data-bbox="415 464 574 495"><i>end example]</i></p> <p data-bbox="415 533 1377 600">The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <p data-bbox="142 615 386 684">style (Shape Styling Properties)</p> | <p data-bbox="415 615 1482 720">Specifies the CSS2 styling properties of the shape. The CSS2 (Cascading Style Sheets, Level 2) specification, a Recommendation of the World Wide Web Consortium, is available here: <a href="http://www.w3.org/TR/REC-CSS2">http://www.w3.org/TR/REC-CSS2</a>.</p> <p data-bbox="415 758 1455 894">This attribute uses a semi-colon delimited list of “name:value” pairs, the syntax defined by section 4.1.8 of the CSS2 specification for grouped declarations (without the surrounding braces). The following tables define the allowed properties and the VML treatment of each.</p> <p data-bbox="415 936 537 968"><i>[Example:</i></p> <pre data-bbox="456 972 1450 1073"> &lt;v:shape ... style='position:absolute;width:100pt;height:50pt' ... &gt; &lt;/v:shape&gt; </pre> <p data-bbox="415 1073 574 1104"><i>end example]</i></p> <table data-bbox="415 1142 1482 1871"> <tr> <th data-bbox="415 1142 662 1188">Property</th><th data-bbox="662 1142 1482 1188">Description</th></tr> <tr> <td data-bbox="415 1188 662 1461">flip</td><td data-bbox="662 1188 1482 1461"> <p data-bbox="678 1199 1442 1266">Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul data-bbox="727 1308 1393 1451" style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul> </td></tr> <tr> <td data-bbox="415 1461 662 1871">height</td><td data-bbox="662 1461 1482 1871"> <p data-bbox="678 1472 1455 1577">Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul data-bbox="727 1612 1458 1860" style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> </td></tr> </table> | Property | Description | flip | <p data-bbox="678 1199 1442 1266">Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul data-bbox="727 1308 1393 1451" style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul> | height | <p data-bbox="678 1472 1455 1577">Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul data-bbox="727 1612 1458 1860" style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> |
| Property                                                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| flip                                                                | <p data-bbox="678 1199 1442 1266">Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul data-bbox="727 1308 1393 1451" style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| height                                                              | <p data-bbox="678 1472 1455 1577">Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul data-bbox="727 1612 1458 1860" style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

| Attributes | Description   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | left          | <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul> |
|            | margin-bottom | <p>Specifies the position of the bottom of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul>                                                                                        |
|            | margin-left   | <p>Specifies the position of the left of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>                                                                                            |
|            | margin-right  | <p>Specifies the position of the right of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                   |

| Attributes | Description                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                                  | <ul style="list-style-type: none"> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>                                                                                                                                                                                                                                                                                                                                   |
|            | margin-top                       | <p>Specifies the position of the top of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> |
|            | mso-position-horizontal          | <p>Specifies the horizontal positioning data for objects in WordprocessingML documents. Default is absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• absolute</li> <li>• left</li> <li>• center</li> <li>• right</li> <li>• inside</li> <li>• outside</li> </ul>                                                                                                                                                                                                                                                                                                                                                                           |
|            | mso-position-horizontal-relative | <p>Specifies relative horizontal position data for objects in WordprocessingML documents. This modifies the mso-position-horizontal property. Default is text. Allowed values are:</p> <ul style="list-style-type: none"> <li>• margin</li> <li>• page</li> <li>• text</li> <li>• char</li> </ul>                                                                                                                                                                                                                                                                                                                                                                   |
|            | mso-position-vertical            | <p>Specifies the vertical positioning data for objects in WordprocessingML documents. Default is absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• absolute</li> <li>• top</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| Attributes | Description                    |                                                                                                                                                                                                                                                                                               |
|------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                                | <ul style="list-style-type: none"> <li>• center</li> <li>• bottom</li> <li>• inside</li> <li>• outside</li> </ul>                                                                                                                                                                             |
|            | mso-position-vertical-relative | <p>Specifies relative vertical position data for objects in WordprocessingML documents. This modifies the mso-position-vertical property. Default is text. Allowed values are:</p> <ul style="list-style-type: none"> <li>• margin</li> <li>• page</li> <li>• text</li> <li>• line</li> </ul> |
|            | mso-wrap-distance-bottom       | <p>Specifies the distance from the bottom of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>           |
|            | mso-wrap-distance-left         | <p>Specifies the distance from the left side of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>        |
|            | mso-wrap-distance-right        | <p>Specifies the distance from the right side of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>       |
|            | mso-wrap-distance-top          | <p>Specifies the distance from the top of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>              |
|            | mso-wrap-edited                | <p>Specifies whether the wrap coordinates were customized by the user. If the wrap coordinates are generated by an editor, this property is true; otherwise they were customized by a user. Default is false.</p>                                                                             |
|            | mso-wrap-style                 | <p>Specifies the wrapping mode for text in shapes in WordprocessingML documents. Default is square. Allowed values are:</p> <ul style="list-style-type: none"> <li>• square - Wraps text inside the shape in a square.</li> </ul>                                                             |



| Attributes | Description |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |             | <ul style="list-style-type: none"> <li>• none - Text does not wrap.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|            | position    | <p>Specifies the kind of positioning used to place an element. Default is static. When the element is contained inside a group, this property shall be absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• static - The element is positioned according to the normal flow of the page. The top and left properties are ignored. If the object is anchored inline, this value is used.</li> <li>• absolute - The element is positioned relative to the parent, using the top and left properties.</li> <li>• relative - The element is positioned according to the normal flow of the page, but the top and left properties are used. The overlap of overlapping elements is governed by the z-index property.</li> </ul>            |
|            | rotation    | <p>Specifies the angle that a shape is rotated, in degrees. Default is 0. Positive angles are clockwise.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|            | top         | <p>Specifies the position of the top of the containing block of the shape relative to the element above it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> |
|            | visibility  | <p>Specifies whether a shape is displayed. Only inherit and hidden are used; any other values are mapped to inherit. Default is inherit. Allowed values are:</p> <ul style="list-style-type: none"> <li>• hidden - The shape is not visible, but is still part of the flow of the objects in the browser. Mouse events are not processed.</li> <li>• inherit - The visibility state is inherited from the parent of the shape.</li> </ul>                                                                                                                                                                                                                                                                                                                   |
|            | width       | <p>Specifies the width of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| Attributes                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                         | <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>                                                               |
|                                                                             | z-index                                                                                                                                                                                                                                                                                                                                                                                                                 | <p>Specifies the display order of overlapping shapes. Default is 0. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Uses the order that the shapes appear in the page, bottom to top.</li> <li>• &lt;order&gt;- A number that represents the stacking precedence. Shapes with higher numbers are placed on top of those with lower numbers. Negative numbers are allowed.</li> </ul> |
| The following properties are only used by the textbox element (§19.1.2.22): |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Property                                                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| direction                                                                   | <p>Specifies the direction of the text in the textbox. Default is ltr. This property is superceded by the mso-direction-alt property if that is specified. Allowed values are:</p> <ul style="list-style-type: none"> <li>• ltr - Text is displayed left-to-right.</li> <li>• rtl - Text is displayed right-to-left.</li> </ul>                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| layout-flow                                                                 | <p>Determines the flow of the text layout in a textbox. Default is horizontal. Allowed values are:</p> <ul style="list-style-type: none"> <li>• horizontal - Text is displayed horizontally.</li> <li>• vertical - Text is displayed vertically.</li> <li>• vertical-ideographic - Ideographic text is displayed vertically.</li> <li>• horizontal-ideographic - Ideographic text is displayed horizontally.</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| mso-direction-alt                                                           | <p>Specifies an alternate direction for text in textboxes. Overrides the direction property. The only allowed value is context.</p>                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| mso-fit-shape-                                                              | <p>Specifies whether the shape stretches to fit the text in the textbox. Default is false.</p>                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| Attributes                                                                                                                                                                                                                   | Description                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |             |      |                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|------|----------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                              | to-text                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |             |      |                                                                                                                                  |
|                                                                                                                                                                                                                              | mso-fit-text-to-shape                                                                                                            | Specifies whether the text stretches to fit the textbox. Default is false.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |             |      |                                                                                                                                  |
|                                                                                                                                                                                                                              | mso-layout-flow-alt                                                                                                              | Specifies the alternate layout flow for text in textboxes. This property is used instead of layout-flow when the layout flow is from bottom to top for non-ideographic languages. Its only value is bottom-to-top.                                                                                                                                                                                                                                                                                                                                   |          |             |      |                                                                                                                                  |
|                                                                                                                                                                                                                              | mso-next-textbox                                                                                                                 | Specifies the ID of the next textbox in a series. Used to keep track of a set of linked textboxes. Default is no value.                                                                                                                                                                                                                                                                                                                                                                                                                              |          |             |      |                                                                                                                                  |
|                                                                                                                                                                                                                              | mso-rotate                                                                                                                       | Specifies a specific rotation value for text in a textbox. Default is 0. Allowed values are: <ul style="list-style-type: none"><li>0</li><li>90</li><li>180</li><li>-90</li></ul>                                                                                                                                                                                                                                                                                                                                                                    |          |             |      |                                                                                                                                  |
|                                                                                                                                                                                                                              | mso-text-scale                                                                                                                   | Specifies the scaling factor for fitting text to shapes. Default is 0. This property is only used if mso-fit-text-to-shape is true.                                                                                                                                                                                                                                                                                                                                                                                                                  |          |             |      |                                                                                                                                  |
|                                                                                                                                                                                                                              | v-text-anchor                                                                                                                    | Specifies the vertical anchoring of text in a textbox. Default is top. The alignment of a text anchor only becomes evident if mso-fit-text-to-shape is false. This property is different from the vertical-align CSS property, which is used for ideographic languages. Allowed values are: <ul style="list-style-type: none"><li>top</li><li>middle</li><li>bottom</li><li>top-center</li><li>middle-center</li><li>bottom-center</li><li>top-baseline</li><li>bottom-baseline</li><li>top-center-baseline</li><li>bottom-center-baseline</li></ul> |          |             |      |                                                                                                                                  |
| The following properties are only used by the textpath element (§19.1.2.23):                                                                                                                                                 |                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |             |      |                                                                                                                                  |
| <table><tr><th>Property</th><th>Description</th></tr><tr><td>font</td><td>Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The</td></tr></table> |                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Property | Description | font | Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The |
| Property                                                                                                                                                                                                                     | Description                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |             |      |                                                                                                                                  |
| font                                                                                                                                                                                                                         | Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |             |      |                                                                                                                                  |

| Attributes | Description          |                                                                                                                                                                                                                                                                                                                                                                       |       |             |        |                      |         |     |     |     |     |      |                  |        |
|------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|--------|----------------------|---------|-----|-----|-----|-----|------|------------------|--------|
|            |                      | order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family.                                                                                                                                                                                                                                                    |       |             |        |                      |         |     |     |     |     |      |                  |        |
|            | font-family          | Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property.                                                                                                                                                                                                                                              |       |             |        |                      |         |     |     |     |     |      |                  |        |
|            | font-size            | Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property.                                                                                                                                                                                                              |       |             |        |                      |         |     |     |     |     |      |                  |        |
|            | font-style           | Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are: <ul style="list-style-type: none"><li>normal</li><li>italic</li><li>oblique - Treated the same as italic.</li></ul>                                                                                                 |       |             |        |                      |         |     |     |     |     |      |                  |        |
|            | font-variant         | Specifies the variant style of a font. Default is normal. The values are the same as those of the CSS font-variant property. Allowed values are: <ul style="list-style-type: none"><li>normal</li><li>small-caps</li></ul>                                                                                                                                            |       |             |        |                      |         |     |     |     |     |      |                  |        |
|            | font-weight          | Specifies the thickness of the letters of the font. Default is normal. The values are the same as those of the CSS font-weight property. Allowed values are:                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |
|            |                      | <table><tr><th>Value</th><th>Description</th></tr><tr><td>normal</td><td rowspan="6">Treated as non-bold.</td></tr><tr><td>lighter</td></tr><tr><td>100</td></tr><tr><td>200</td></tr><tr><td>300</td></tr><tr><td>400</td></tr><tr><td>bold</td><td rowspan="4">Treated as bold.</td></tr><tr><td>bolder</td></tr><tr><td>500</td></tr><tr><td>600</td></tr></table> | Value | Description | normal | Treated as non-bold. | lighter | 100 | 200 | 300 | 400 | bold | Treated as bold. | bolder |
| Value      | Description          |                                                                                                                                                                                                                                                                                                                                                                       |       |             |        |                      |         |     |     |     |     |      |                  |        |
| normal     | Treated as non-bold. |                                                                                                                                                                                                                                                                                                                                                                       |       |             |        |                      |         |     |     |     |     |      |                  |        |
| lighter    |                      |                                                                                                                                                                                                                                                                                                                                                                       |       |             |        |                      |         |     |     |     |     |      |                  |        |
| 100        |                      |                                                                                                                                                                                                                                                                                                                                                                       |       |             |        |                      |         |     |     |     |     |      |                  |        |
| 200        |                      |                                                                                                                                                                                                                                                                                                                                                                       |       |             |        |                      |         |     |     |     |     |      |                  |        |
| 300        |                      |                                                                                                                                                                                                                                                                                                                                                                       |       |             |        |                      |         |     |     |     |     |      |                  |        |
| 400        |                      |                                                                                                                                                                                                                                                                                                                                                                       |       |             |        |                      |         |     |     |     |     |      |                  |        |
| bold       | Treated as bold.     |                                                                                                                                                                                                                                                                                                                                                                       |       |             |        |                      |         |     |     |     |     |      |                  |        |
| bolder     |                      |                                                                                                                                                                                                                                                                                                                                                                       |       |             |        |                      |         |     |     |     |     |      |                  |        |
| 500        |                      |                                                                                                                                                                                                                                                                                                                                                                       |       |             |        |                      |         |     |     |     |     |      |                  |        |
| 600        |                      |                                                                                                                                                                                                                                                                                                                                                                       |       |             |        |                      |         |     |     |     |     |      |                  |        |

| Attributes | Description           |                                                                                                                                                                                                                                                                                                                                     |  |
|------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|            |                       | <div>700</div> <div>800</div> <div>900</div>                                                                                                                                                                                                                                                                                        |  |
|            | mso-text-shadow       | Specifies whether a shadow is applied to the text on a text path. Default is false.                                                                                                                                                                                                                                                 |  |
|            | text-decoration       | Specifies the style of text decoration. Default is none. The values are the same as those of the CSS text-decoration property. Allowed values are: <ul style="list-style-type: none"><li>• none</li><li>• underline</li><li>• overline</li><li>• line-through</li><li>• blink</li></ul>                                             |  |
|            | v-rotate-letters      | Specifies whether the letters of the text are rotated counterclockwise by 90 degrees. Default is false.                                                                                                                                                                                                                             |  |
|            | v-same-letter-heights | Specifies whether all letters are the same height regardless of initial case. If true, the lowercase letters are stretched to the height of the uppercase letters. Default is false.                                                                                                                                                |  |
|            | v-text-align          | Specifies the alignment of text. Default is left. Allowed values are: <ul style="list-style-type: none"><li>• left</li><li>• right</li><li>• center</li><li>• justify</li><li>• letter-justify - Distributes the extra space between the letters.</li><li>• stretch-justify - Stretches the letters to fill in the space.</li></ul> |  |
|            | v-text-kern           | Specifies whether kerning is turned on. Default is false.                                                                                                                                                                                                                                                                           |  |
|            | v-text-reverse        | Specifies whether the layout order of rows is reversed. Default is false. This is used for vertical text layout.                                                                                                                                                                                                                    |  |
|            | v-text-spacing-mode   | Specifies the mode for letter spacing. Default is tightening. This property determines whether space is removed between each letter (tightening) or added between each letter (tracking). The amount of letter spacing change is defined by the v-text-spacing property. Allowed values are:                                        |  |

| Attributes                               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|--------------|----------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------|
|                                          | <ul style="list-style-type: none"> <li>• tightening</li> <li>• tracking</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |
|                                          | <b>v-text-spacing</b> Specifies the amount of spacing for text in 100ths of single line spacing. Default is 100.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |
|                                          | <p>The line (§19.1.2.12), polyline (§19.1.2.15) and curve (§19.1.2.3) elements ignore the following properties:</p> <ul style="list-style-type: none"> <li>• top</li> <li>• left</li> <li>• width</li> <li>• height</li> </ul> <p>The following properties are not inherited by an element that references a shapetype element (§19.1.2.20) via the id attribute:</p> <ul style="list-style-type: none"> <li>• flip</li> <li>• height</li> <li>• left</li> <li>• margin-left</li> <li>• margin-top</li> <li>• position</li> <li>• rotation</li> <li>• top</li> <li>• visibility</li> <li>• width</li> <li>• z-index</li> </ul> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                              |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |
| <b>target</b> (Hyperlink Display Target) | <p>Specifies a frame or window that a URL is displayed in. Default is no value. Allowed values are:</p> <table data-bbox="415 1528 1477 1827"> <tr> <th data-bbox="415 1528 626 1577">Value</th><th data-bbox="626 1528 1477 1577">Description</th></tr> <tr> <td data-bbox="415 1577 626 1661">&lt;targetname&gt;</td><td data-bbox="626 1577 1477 1661">String containing the name of the frame or window in which to load the document.</td></tr> <tr> <td data-bbox="415 1661 626 1745">_blank</td><td data-bbox="626 1661 1477 1745">Specifies that the linked document is loaded into a new blank window. This window is not named.</td></tr> <tr> <td data-bbox="415 1745 626 1831">_media</td><td data-bbox="626 1745 1477 1831">Specifies that the linked document is loaded into the browser's multimedia pane.</td></tr> </table> | Value | Description | <targetname> | String containing the name of the frame or window in which to load the document. | _blank | Specifies that the linked document is loaded into a new blank window. This window is not named. | _media | Specifies that the linked document is loaded into the browser's multimedia pane. |
| Value                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |
| <targetname>                             | String containing the name of the frame or window in which to load the document.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |
| _blank                                   | Specifies that the linked document is loaded into a new blank window. This window is not named.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |
| _media                                   | Specifies that the linked document is loaded into the browser's multimedia pane.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |

| Attributes           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                      |                                                                                                             |                      |                                                                              |                    |                                                                                                                 |                   |                                                                       |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------|
|                      | <table border="1" data-bbox="415 243 1471 579"> <tr> <td data-bbox="415 243 626 327"><code>_parent</code></td><td data-bbox="626 243 1471 327">Specifies that the linked document is loaded into the immediate parent of the document containing the link.</td></tr> <tr> <td data-bbox="415 327 626 411"><code>_search</code></td><td data-bbox="626 327 1471 411">Specifies that the linked document is loaded into the browser's search pane.</td></tr> <tr> <td data-bbox="415 411 626 495"><code>_self</code></td><td data-bbox="626 411 1471 495">Specifies that the linked document is loaded into the window in which the link was clicked (the active window).</td></tr> <tr> <td data-bbox="415 495 626 579"><code>_top</code></td><td data-bbox="626 495 1471 579">Specifies that the linked document is loaded into the topmost window.</td></tr> </table> <p data-bbox="415 621 537 653">[Example:</p> <pre data-bbox="456 684 1065 821"> &lt;v:shape ...   href="http://www.openxmlformats.org"   target="_self" ... &gt; &lt;/v:shape&gt; </pre> <p data-bbox="415 863 578 894">end example]</p> <p data-bbox="415 936 1373 999">The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> | <code>_parent</code> | Specifies that the linked document is loaded into the immediate parent of the document containing the link. | <code>_search</code> | Specifies that the linked document is loaded into the browser's search pane. | <code>_self</code> | Specifies that the linked document is loaded into the window in which the link was clicked (the active window). | <code>_top</code> | Specifies that the linked document is loaded into the topmost window. |
| <code>_parent</code> | Specifies that the linked document is loaded into the immediate parent of the document containing the link.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                      |                                                                                                             |                      |                                                                              |                    |                                                                                                                 |                   |                                                                       |
| <code>_search</code> | Specifies that the linked document is loaded into the browser's search pane.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                      |                                                                                                             |                      |                                                                              |                    |                                                                                                                 |                   |                                                                       |
| <code>_self</code>   | Specifies that the linked document is loaded into the window in which the link was clicked (the active window).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      |                                                                                                             |                      |                                                                              |                    |                                                                                                                 |                   |                                                                       |
| <code>_top</code>    | Specifies that the linked document is loaded into the topmost window.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |                                                                                                             |                      |                                                                              |                    |                                                                                                                 |                   |                                                                       |
| title (Shape Title)  | <p data-bbox="415 1014 1471 1077">Specifies the text displayed when the mouse pointer moves over the shape. Default is no value.</p> <p data-bbox="415 1119 537 1150">[Example:</p> <pre data-bbox="456 1182 935 1255"> &lt;v:shape ... title="tooltip" ... &gt; &lt;/v:shape&gt; </pre> <p data-bbox="415 1297 578 1329">end example]</p> <p data-bbox="415 1371 1373 1434">The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |                                                                                                             |                      |                                                                              |                    |                                                                                                                 |                   |                                                                       |
| to (Line End Point)  | <p data-bbox="415 1455 1471 1560">Specifies the ending point of the line in the coordinate space of the parent element. Default is "10,10". If the parent is not a VML element, the default unit is a pixel. Allowed units are in, cm, mm, pt, pc and px.</p> <p data-bbox="415 1602 537 1633">[Example:</p> <pre data-bbox="456 1665 1097 1728"> &lt;v:line from="10pt,10pt" to="50pt,50pt"&gt; &lt;/v:line&gt; </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |                                                                                                             |                      |                                                                              |                    |                                                                                                                 |                   |                                                                       |

| Attributes                                                                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                         | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p>userdrawn (Exists In Master Slide)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether the user has added the shape to a master slide. Default is false. Used by PresentationML.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:userdrawn="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                           |
| <p>userhidden (Hide Script Anchors)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>   | <p>Specifies whether a script anchor is hidden. Default is false. If true, script anchors stay hidden even if the shape is otherwise visible. A script anchor is the visual representation of a script that when displayed in an application.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:userhidden="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                           |
| <p>wrapcoords (Shape Bounding Polygon)</p>                                                              | <p>Specifies the bounding polygon that surrounds a shape. This is specified using a comma-delimited list of x and y coordinates: "x1,y1,x2,y2,x3,y3,..." This is used when text is tightly wrapped around a shape. Default is no value until the mso-wrap-mode style attribute is set to tight or through.</p> <p>[Example:</p> <pre>&lt;v:shape ... wrapcoords="0,0 0,200, 200,200, 200,0" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |



[Note: The W3C XML Schema definition of this element's content model ([CT\\_Line](#)) is located in §A.6.1. *end note*]

### 19.1.2.13 oval (Oval)

This element draws an oval sized according to the CSS2 style content width and height.

[Example:

```
<v:oval fillcolor="blue"
  style="position:relative;top:1;left:1;width:150;height:50">
</v:oval>
```



*end example*]

| Parent Elements                                                                                                |
|----------------------------------------------------------------------------------------------------------------|
| background (Part 1, §17.2.1); group (§19.1.2.7); object (Part 1, §17.3.3.19); pict (§14.2.2.2); pict (§14.5.1) |

| Child Elements                         | Subclause  |
|----------------------------------------|------------|
| anchorlock (Anchor Location Is Locked) | §19.3.2.1  |
| borderbottom (Bottom Border)           | §19.3.2.2  |
| borderleft (Left Border)               | §19.3.2.3  |
| borderright (Right Border)             | §19.3.2.4  |
| bordertop (Top Border)                 | §19.3.2.5  |
| callout (Callout)                      | §19.2.2.2  |
| ClientData (Attached Object Data)      | §19.4.2.12 |
| clippath (Shape Clipping Path)         | §19.2.2.3  |
| extrusion (3D Extrusion)               | §19.2.2.11 |
| fill (Shape Fill Properties)           | §19.1.2.5  |
| formulas (Set of Formulas)             | §19.1.2.6  |
| handles (Set of Handles)               | §19.1.2.9  |
| imagedata (Image Data)                 | §19.1.2.11 |
| lock (Shape Protections)               | §19.2.2.18 |
| path (Shape Path)                      | §19.1.2.14 |
| shadow (Shadow Effect)                 | §19.1.2.18 |
| signatureline (Digital Signature Line) | §19.2.2.30 |

| Child Elements                | Subclause  |
|-------------------------------|------------|
| skew (Skew Transform)         | §19.2.2.31 |
| stroke (Line Stroke Settings) | §19.1.2.21 |
| textbox (Text Box)            | §19.1.2.22 |
| textdata (VML Diagram Text)   | §19.5.2.2  |
| textpath (Text Layout Path)   | §19.1.2.23 |
| wrap (Text Wrapping)          | §19.3.2.6  |

| Attributes                                                                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>allowincell (Allow in Table Cell)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>  | <p>Specifies whether a shape can be placed in a table. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:allowincell="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                     |
| <p>allowoverlap (Allow Shape Overlap)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether a shape can overlap another shape. Default is true. If false, the shape shifts left or right so as not to overlap another shape, similar to the behavior of the HTML float attribute.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:allowoverlap="false" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| alt (Alternate Text)                                                                                    | <p>Specifies alternative text describing the graphical object. This text should provide a brief description of the shape for use by accessibility tools. Default is no value.</p> <p>[Example: The alt text describes the basic shape:</p> <pre>&lt;v:shape ... fillcolor="red" alt="Red rectangle"&gt; &lt;/v:shape&gt;</pre> <p>The alt text describes the contents of a shape displaying an image:</p>                              |

| Attributes                                                                                                       | Description                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                  | <p>&lt;v:shape ... alt="Picture of a sunset"&gt;<br/>&lt;/v:shape&gt;</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                   |
| <p>borderbottomcolor<br/>(Bottom Border Color)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies the bottom border color of an inline shape. Default is no value.</p> <p>[Example:</p> <p>&lt;v:shape ... o:bottomcolor="red" ... &gt;<br/>&lt;/v:shape&gt;</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <p>borderleftcolor<br/>(Border Left Color)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>     | <p>Specifies the left border color of an inline shape. Default is no value.</p> <p>[Example:</p> <p>&lt;v:shape ... o:leftcolor="red" ... &gt;<br/>&lt;/v:shape&gt;</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>     |
| <p>borderrightcolor<br/>(Border Right Color)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>   | <p>Specifies the right border color of an inline shape. Default is no value.</p> <p>[Example:</p> <p>&lt;v:shape ... o:rightcolor="red" ... &gt;<br/>&lt;/v:shape&gt;</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>   |
| <p>bordertopcolor<br/>(Border Top Color)</p> <p>Namespace:</p>                                                   | <p>Specifies the top border color of an inline shape. Default is no value.</p> <p>[Example:</p>                                                                                                                                                                                                         |

| Attributes                                                                                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| urn:schemas-microsoft-com:office:office                                                      | <pre>&lt;v:shape ... o:bordercolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| bullet (Graphical Bullet)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office       | <p>Specifies whether the shape is a graphical bullet. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:bullet="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| button (Button Behavior Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies whether a shape exhibits button press behavior on click. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:button="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| bwmode (Black-and-White Mode)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office   | <p>Specifies how a shape renders for black-and-white output devices. When a shape is printed on a black-and-white printer or displayed in a black-and-white view in an application, several options are possible. Default is auto, which uses o:bwnormal for normal black-and-white rendering and o:bwpure for pure black-and-white rendering.</p> <p>bwnormal and bwpure are subordinate to bwmode. If bwmode is "auto" then the value for bwnormal or bwpure is used depending on what the output format is. An application can define for itself what, if any, difference there is between normal B&amp;W and pure B&amp;W. [Example: Normal B&amp;W might allow greyscale and pure B&amp;W might not. <i>end example]</i></p> <p>[Example: This shape renders in grayscale in a black-and-white environment:</p> <pre>&lt;v:shape ... o:bwmode="grayscale" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> |

| Attributes                                                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>bwnormal (Normal Black-and-White Mode)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3).</p> <p>Specifies the black-and-white mode for normal black-and-white output devices. Default is auto.</p> <p>[Example: This shape renders in a pale grayscale in a normal black-and-white environment:</p> <pre>&lt;v:shape ... o:bwmode="auto" o:bwnormal="lightgrayscale" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3).</p> |
| <p>bwpure (Pure Black-and-White Mode)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>     | <p>Specifies the black-and-white mode for pure black-and-white output devices. Default is auto.</p> <p>[Example: This shape renders in high contrast when in a pure black-and-white environment:</p> <pre>&lt;v:shape ... o:bwmode="auto" o:bwpure="highcontrast" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3).</p>                                                                                                           |
| <p>chromakey (Image Transparency Color)</p>                                                                 | <p>Specifies a color value that is transparent and show anything behind the shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:image ... chromakey="white" ...&gt; &lt;/v:image&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p>                                                                                                                                                                                                       |
| <p>class (CSS Reference)</p>                                                                                | <p>Specifies a reference to the definition of a CSS style. Default is no value.</p> <p>[Example: The snippets below are equivalent:</p>                                                                                                                                                                                                                                                                                                                                                                                             |

| Attributes                                                                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                    | <pre> ... .narrowstyle {width:50;height:100} ... &lt;v:shape ... class="narrowstyle"   style="top:1;left:1"&gt; &lt;/v:shape&gt;  &lt;v:shape ... style="top:1;left:1;   width:50;height:100"&gt; &lt;/v:shape&gt;  end example]  The possible values for this attribute are defined by the W3C XML Schema string datatype. </pre>                                                                                                                                                                    |
| clip (Clipping Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office                | <p>Specifies that the clipping region is active. This is used in conjunction with the clippath (§19.2.2.3) element to create a clipping region.</p> <p>[Example:</p> <pre> &lt;v:shape ... o:clip="true"&gt; &lt;/v:shape&gt; </pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                       |
| cliptowrap (Clip to Wrapping Polygon)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies that the clipping region for the shape aligns with the wrapping polygon that tightly surrounds the entire shape (essentially, that the shape shall not be drawn beyond its wrapping polygon's extents – if it does, the shape shall be clipped). Default is false.</p> <p>[Example:</p> <pre> &lt;v:shape ... o:cliptowrap="true"&gt; &lt;/v:shape&gt; </pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| connectortype (Shape Connector Type)<br><br>Namespace:                                             | <p>Specifies the kind of connector used for joining shapes. Default is straight.</p> <p>[Example:</p> <pre> &lt;v:shape ... o:connectortype="elbow" ... &gt; </pre>                                                                                                                                                                                                                                                                                                                                   |

| Attributes                               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| urn:schemas-microsoft-com:office:office  | <p>&lt;/v:shape&gt;</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ConnectorType simple type (§19.2.3.7).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| coordorigin<br>(Coordinate Space Origin) | <p>Specifies the coordinate of the top left corner of the shape's coordinate space. This determines the position of the (0,0) coordinate space origin within the shape's bounding box. Default is "0,0", which places the (0,0) origin at the top left corner of the bounding box.</p> <p>This affects shape properties that specify coordinate positions, such as the path attribute. Thus a path can be defined against a generic (0,0) origin and the coordorigin value translates the entire path within the shape's bounding space.</p> <p>[Example: The horizontal and vertical coordinate space ranges from -100 to +100 because the coordinate space (coordsize) is 200 by 200 and the top left coordinate is (-100,-100). The (0,0) origin lies at the center of the shape's bounding box, as evidenced by the position of the shape's path within the coordinate space:</p> <pre>&lt;v:shape ... coordsize="200,200"   coordorigin="-100,-100"   path="m 0,0 l 0,50, 50,50, 50,0 x e"&gt; &lt;/v:shape&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| coordsize<br>(Coordinate Space Size)     | <p>Specifies the size of the shape's coordinate space in coordinate units. Default is "1000,1000".</p> <p>The physical size of a coordinate unit length is determined by both the size of the coordinate space (coordsize) and the size of the shape (style width and height). The coordsize attribute defines the number of horizontal and vertical subdivisions into which the shape's bounding box is divided. The combination of coordsize and style width/height effective scales the shape anisotropically.</p> <p>[Example: The path is 50 units wide and tall, which is 25% of the size of the coordinate space:</p> <pre>&lt;v:shape ... coordsize="200,200"</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| Attributes                                                                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                             | <pre>coordorigin="-100,-100" path="m 0,0 l 0,50, 50,50, 50,0 x e"&gt; &lt;/v:shape&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                      |
| <b>dgmlayout</b><br>(Diagram Node Layout Identifier)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office           | <p>Specifies the kind of automatic layout to apply to the diagram node. This is only meaningful if the shape is a node in an organization chart, which is denoted by the orgchart value of the editas attribute of the group element.</p> <p>[Example:</p> <pre>&lt;v:shape ... dgmlayout="1"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_DiagramLayout simple type (§19.2.3.10).</p>                                 |
| <b>dgmlayoutmru</b><br>(Diagram Node Recent Layout Identifier)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies the kind of automatic layout most recently used on the child elements of the diagram node. This is only meaningful if the shape is a node in an organization chart, which is denoted by the orgchart value of the editas attribute of the group element.</p> <p>[Example:</p> <pre>&lt;v:shape ... dgmlayout="1"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_DiagramLayout simple type (§19.2.3.10).</p> |
| <b>dgmnodekind</b><br>(Diagram Node Identifier)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office                | <p>Specifies an optional, application-defined parameter that is intended to be used by the application to tag different types of nodes in a diagram.</p> <p>[Example:</p> <pre>&lt;v:shape ... dgmnodekind="1"&gt; &lt;/v:shape&gt;</pre>                                                                                                                                                                                                                                                       |



| Attributes                                                                                                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                               | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema integer datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p>doubleclicknotify<br/>(Double-click Notification Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies that an event message is sent when a shape is double-clicked. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:doubleclicknotify="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <p>fillcolor (Fill Color)</p>                                                                                                 | <p>Specifies the color to use for the fill. Default is white. If the fill element (§19.1.2.5) is present, its color attribute takes precedence. Colors are typically specified as either a named color, such as red, or six hexadecimal digits representing the red, green and blue values of the color, such as #00FF30. Full details are specified in the simple type description.</p> <p>[Example: This shape is red if its fill is visible:</p> <pre>&lt;v:shape ... fillcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p>This is equivalent to:</p> <pre>&lt;v:shape ... fillcolor="#ff0000" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p> |
| <p>filled (Shape Fill Toggle)</p>                                                                                             | <p>Specifies whether the closed path is filled. Default is true. This attribute is overridden by the fill on attribute.</p> <p>[Example:</p> <pre>&lt;v:shape ... filled="f" fillcolor="red" ...&gt; &lt;/v:shape&gt;</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

| Attributes                                                                                                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                 |  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                              |
| <p><b>forcedash</b> (Force Dashed Outline)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>    | <p>Specifies whether a dashed outline is used to draw a shape when a shape has no line or fill. Default is <code>false</code>.</p> <p>Used by PresentationML placeholders to draw a dashed outline when there is no line and no fill for a shape.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:forcedash="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <p><b>hr</b> (Horizontal Rule Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>         | <p>Specifies that a shape is a horizontal rule. Default is <code>false</code>.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hr="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                           |
| <p><b>hralign</b> (Horizontal Rule Alignment)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies the alignment of a horizontal rule. Default is <code>left</code>.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hralign="center" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_HrAlign simple type (§19.2.3.16).</p>                                                                                                                                                                     |

| Attributes                                                                                                          | Description                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>href</b> (Hyperlink Target)                                                                                      | <p>Specifies a hyperlink URL target for the shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... href="http://www.openxmlformats.org" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                |
| <b>hrnoshade</b> (Horizontal Rule 3D Shading Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office   | <p>Specifies that the horizontal rule does not have 3-D shading. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hrnoshade="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                 |
| <b>hrpct</b> (Horizontal Rule Length Percentage)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office       | <p>Specifies the length of a horizontal rule as a percentage of page width. Default is 0.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hrpct="85" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema float datatype.</p>                                       |
| <b>hrstd</b> (Horizontal Rule Standard Display Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies whether a shape is displayed as a standard horizontal rule. Only applies if hr is true. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hrstd="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <b>id</b> (Unique                                                                                                   | <p>Specifies a unique identifier that can be used to reference a VML object.</p>                                                                                                                                                                                                                                                           |

| Attributes                                                                                | Description                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Identifier)                                                                               | <p>Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... id="myShape" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                           |
| insetmode (Text Inset Mode)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office  | <p>Specifies whether the application calculates the internal text margin instead of using the inset attribute. Default is custom. This attribute is only meaningful for text boxes.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:insetmode="auto" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_InsetMode simple type (§19.2.3.17).</p>                  |
| insetpen (Inset Border From Path)                                                         | <p>Specifies that the border shall be displayed inside of the path defining the shape, rather than along the path (the default border placement), or outside of the path as might be done with an image.</p> <p>[Example:</p> <pre>&lt;v:shape ... insetpen="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| ole (Embedded Object Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies whether the shape is an embedded object. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:ole="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p>                                                                                                                                                                                                                                            |

| Attributes                                                                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>oleicon (Embedded Object Icon Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>The possible values for this attribute are defined by the ST_TrueFalseBlank simple type (§20.1.2.6).</p> <p>Specifies whether an embedded object is displayed as an icon. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:oleicon="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                           |
| <p>oned (Shape Handle Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>            | <p>Specifies whether the extra handles of a shape are hidden. If true, hides all shape handles except the top left and bottom right; that is, the same handles that are used for a straight line segment. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:oned="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                 |
| <p>opacity (Fill Color Opacity)</p>                                                                        | <p>Specifies the opacity of the primary fill color. Default is 1.0. This numeric value can also be specified in 1/65536ths if a trailing "f" is supplied. [Example: A value of "52429f" represents 52429/65536 or 0.8. end example]</p> <p>[Example: The red color is 25% opaque:</p> <pre>&lt;v:fill type="gradient" color="red" color2="blue" opacity=".25"&gt; &lt;/v:fill&gt;</pre> <div data-bbox="451 1587 779 1806">  <p>opacity="1"</p>  <p>opacity=".25"</p> </div> <p>end example]</p> |

| Attributes                                                                                                       | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                  | <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                       |
| <p>preferrelative<br/>(Relative Resize Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether the original size of an object is saved after reformatting. Default is false. If true, the original size of the object is stored and all resizing is based on a percentage of that original size. Otherwise, each resizing resets the scale to 100%.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:preferrelative="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <p>print (Print Toggle)</p>                                                                                      | <p>Specifies whether the shape is printed. Default is true.</p> <p>[Example:</p> <pre>&lt;v:shape ... print="false" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                         |
| <p>regroupid (Regroup ID)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>                      | <p>Specifies a previous group for a shape. An ID number is used to identify groups of shapes that are no longer grouped. This allows shapes to be regrouped programmatically.</p> <p>[Example: The shape was part of a group identified by the ID 040754:</p> <pre>&lt;v:shape ... o:regroupid="040754" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema integer datatype.</p>                                          |
| <p>spid (Optional String)</p> <p>Namespace:<br/>urn:schemas-microsoft-</p>                                       | <p>Specifies an optional string that an application can use to identify the particular shape. Default is no value.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                |

| Attributes                                                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| com:office:office                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| spt (Optional Number)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies an optional number that an application can use to associate the particular shape with a defined shape type. Default is 0.</p> <p>The possible values for this attribute are defined by the W3C XML Schema float datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| strokecolor (Shape Stroke Color)                                                   | <p>Specifies the primary color of the brush to use to stroke the path of the shape. Default is black. The color attribute of the stroke element (§19.1.2.21) overrides this. Colors are typically specified as either a named color, such as red, or six hexadecimal digits representing the red, green and blue values of the color, such as #00FF30. Full details are specified in the simple type description.</p> <p>[Example:</p> <pre>&lt;v:shape ... strokecolor="red" ...&gt; &lt;/v:shape&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p> |
| stroked (Shape Stroke Toggle)                                                      | <p>Specifies whether the path defining the shape is stroked with a solid line. The stroke element (§19.1.2.21) defines other strokes. The on attribute of the stroke element overrides this attribute. Default is true.</p> <p>[Example:</p> <pre>&lt;v:shape ... fillcolor="red"   stroked="false" strokecolor="blue"...&gt; &lt;/v:shape&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                        |

| Attributes                                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                               |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>strokeweight</b><br>(Shape Stroke Weight) | <p>Specifies the width of the brush to use to stroke the path. Default is 1 point. If a number is given without units, the emu is used. The weight attribute of the stroke element (§19.1.2.21) overrides this attribute.</p> <p>[Example:</p> <pre>&lt;v:shape ... strokeweight="3pt" ... &gt; &lt;/v:shape&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                               |
| <b>style</b> (Shape Styling Properties)      | <p>Specifies the CSS2 styling properties of the shape. The CSS2 (Cascading Style Sheets, Level 2) specification, a Recommendation of the World Wide Web Consortium, is available here: <a href="http://www.w3.org/TR/REC-CSS2">http://www.w3.org/TR/REC-CSS2</a>.</p> <p>This attribute uses a semi-colon delimited list of “name:value” pairs, the syntax defined by section 4.1.8 of the CSS2 specification for grouped declarations (without the surrounding braces). The following tables define the allowed properties and the VML treatment of each.</p> <p>[Example:</p> <pre>&lt;v:shape ... style='position:absolute;width:100pt;height:50pt' ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <table border="1" data-bbox="414 1392 1477 1850"> <thead> <tr> <th data-bbox="414 1392 662 1438">Property</th><th data-bbox="662 1392 1477 1438">Description</th></tr> </thead> <tbody> <tr> <td data-bbox="414 1438 662 1707">flip</td><td data-bbox="662 1438 1477 1707"> <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul> </td></tr> <tr> <td data-bbox="414 1707 662 1850">height</td><td data-bbox="662 1707 1477 1850"> <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> </td></tr> </tbody> </table> | Property | Description | flip | <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul> | height | <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> |
| Property                                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                               |
| flip                                         | <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                               |
| height                                       | <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                               |



| Attributes | Description   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |               | <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul>                                                                                                                                                                                                                                                                                                                                                    |
|            | left          | <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul> |
|            | margin-bottom | <p>Specifies the position of the bottom of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul>                                                                                         |
|            | margin-left   | <p>Specifies the position of the left of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>                                                                                            |

| Attributes | Description                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | margin-right                     | <p>Specifies the position of the right of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul> |
|            | margin-top                       | <p>Specifies the position of the top of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul>   |
|            | mso-position-horizontal          | <p>Specifies the horizontal positioning data for objects in WordprocessingML documents. Default is absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• absolute</li> <li>• left</li> <li>• center</li> <li>• right</li> <li>• inside</li> <li>• outside</li> </ul>                                                                                                                                                                                                                                                                                                                                                                             |
|            | mso-position-horizontal-relative | <p>Specifies relative horizontal position data for objects in WordprocessingML documents. This modifies the mso-position-horizontal property. Default is text. Allowed values are:</p> <ul style="list-style-type: none"> <li>• margin</li> <li>• page</li> <li>• text</li> <li>• char</li> </ul>                                                                                                                                                                                                                                                                                                                                                                     |

| Attributes                     | Description                                                                                                                                                                                                                                                                                   |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| mso-position-vertical          | <p>Specifies the vertical positioning data for objects in WordprocessingML documents. Default is absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• absolute</li> <li>• top</li> <li>• center</li> <li>• bottom</li> <li>• inside</li> <li>• outside</li> </ul>       |
| mso-position-vertical-relative | <p>Specifies relative vertical position data for objects in WordprocessingML documents. This modifies the mso-position-vertical property. Default is text. Allowed values are:</p> <ul style="list-style-type: none"> <li>• margin</li> <li>• page</li> <li>• text</li> <li>• line</li> </ul> |
| mso-wrap-distance-bottom       | <p>Specifies the distance from the bottom of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>           |
| mso-wrap-distance-left         | <p>Specifies the distance from the left side of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>        |
| mso-wrap-distance-right        | <p>Specifies the distance from the right side of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>       |
| mso-wrap-distance-top          | <p>Specifies the distance from the top of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>              |
| mso-wrap-edited                | <p>Specifies whether the wrap coordinates were customized by the user. If the wrap coordinates are generated by an editor, this property is true; otherwise they were customized by a user.</p>                                                                                               |

| Attributes | Description    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                | Default is false.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|            | mso-wrap-style | <p>Specifies the wrapping mode for text in shapes in WordprocessingML documents. Default is square. Allowed values are:</p> <ul style="list-style-type: none"> <li>square - Wraps text inside the shape in a square.</li> <li>none - Text does not wrap.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|            | position       | <p>Specifies the kind of positioning used to place an element. Default is static. When the element is contained inside a group, this property shall be absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>static - The element is positioned according to the normal flow of the page. The top and left properties are ignored. If the object is anchored inline, this value is used.</li> <li>absolute - The element is positioned relative to the parent, using the top and left properties.</li> <li>relative - The element is positioned according to the normal flow of the page, but the top and left properties are used. The overlap of overlapping elements is governed by the z-index property.</li> </ul>            |
|            | rotation       | <p>Specifies the angle that a shape is rotated, in degrees. Default is 0. Positive angles are clockwise.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|            | top            | <p>Specifies the position of the top of the containing block of the shape relative to the element above it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>auto - Default position of an element in the flow of the page.</li> <li>&lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>&lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> |
|            | visibility     | <p>Specifies whether a shape is displayed. Only inherit and hidden are used; any other values are mapped to inherit. Default is inherit. Allowed values are:</p> <ul style="list-style-type: none"> <li>hidden - The shape is not visible, but is still part of the flow of the objects in the browser. Mouse events are not processed.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                    |

| Attributes                                                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <ul style="list-style-type: none"> <li>• <b>inherit</b> - The visibility state is inherited from the parent of the shape.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                    | <b>width</b>                                                                                                                                                                                                                                                                                                                                                                                                                                        | <p>Specifies the width of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• <b>auto</b> - Default position of an element in the flow of the page.</li> <li>• <b>&lt;units&gt;</b> - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• <b>&lt;percentage&gt;</b> - Value expressed as a percentage of the parent object's width.</li> </ul> |
|                                                                                    | <b>z-index</b>                                                                                                                                                                                                                                                                                                                                                                                                                                      | <p>Specifies the display order of overlapping shapes. Default is 0. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• <b>auto</b> - Uses the order that the shapes appear in the page, bottom to top.</li> <li>• <b>&lt;order&gt;</b> - A number that represents the stacking precedence. Shapes with higher numbers are placed on top of those with lower numbers. Negative numbers are allowed.</li> </ul>                                                                                                                                                        |
| <p>The following properties are only used by the textbox element (§19.1.2.22):</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Property</b>                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>direction</b>                                                                   | <p>Specifies the direction of the text in the textbox. Default is ltr. This property is superceded by the mso-direction-alt property if that is specified. Allowed values are:</p> <ul style="list-style-type: none"> <li>• <b>ltr</b> - Text is displayed left-to-right.</li> <li>• <b>rtl</b> - Text is displayed right-to-left.</li> </ul>                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>layout-flow</b>                                                                 | <p>Determines the flow of the text layout in a textbox. Default is horizontal. Allowed values are:</p> <ul style="list-style-type: none"> <li>• <b>horizontal</b> - Text is displayed horizontally.</li> <li>• <b>vertical</b> - Text is displayed vertically.</li> <li>• <b>vertical-ideographic</b> - Ideographic text is displayed vertically.</li> <li>• <b>horizontal-ideographic</b> - Ideographic text is displayed horizontally.</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| Attributes | Description           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|            | mso-direction-alt     | Specifies an alternate direction for text in textboxes. Overrides the direction property. The only allowed value is context.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|            | mso-fit-shape-to-text | Specifies whether the shape stretches to fit the text in the textbox. Default is false.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|            | mso-fit-text-to-shape | Specifies whether the text stretches to fit the textbox. Default is false.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|            | mso-layout-flow-alt   | Specifies the alternate layout flow for text in textboxes. This property is used instead of layout-flow when the layout flow is from bottom to top for non-ideographic languages. Its only value is bottom-to-top.                                                                                                                                                                                                                                                                                                                                                                         |
|            | mso-next-textbox      | Specifies the ID of the next textbox in a series. Used to keep track of a set of linked textboxes. Default is no value.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|            | mso-rotate            | <p>Specifies a specific rotation value for text in a textbox. Default is 0. Allowed values are:</p> <ul style="list-style-type: none"> <li>• 0</li> <li>• 90</li> <li>• 180</li> <li>• -90</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                      |
|            | mso-text-scale        | Specifies the scaling factor for fitting text to shapes. Default is 0. This property is only used if mso-fit-text-to-shape is true.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|            | v-text-anchor         | <p>Specifies the vertical anchoring of text in a textbox. Default is top. The alignment of a text anchor only becomes evident if mso-fit-text-to-shape is false. This property is different from the vertical-align CSS property, which is used for ideographic languages. Allowed values are:</p> <ul style="list-style-type: none"> <li>• top</li> <li>• middle</li> <li>• bottom</li> <li>• top-center</li> <li>• middle-center</li> <li>• bottom-center</li> <li>• top-baseline</li> <li>• bottom-baseline</li> <li>• top-center-baseline</li> <li>• bottom-center-baseline</li> </ul> |

| Attributes   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |             |        |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |                  |                                                                                                                                                                                                                                          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|--------|----------------------|---------|-----|-----|-----|-----|------|------------------|
|              | <p>The following properties are only used by the textpath element (§19.1.2.23):</p> <table border="1"> <tr> <th data-bbox="418 317 662 363">Property</th><th data-bbox="662 317 1482 363">Description</th></tr> <tr> <td data-bbox="418 363 662 520">font</td><td data-bbox="662 363 1482 520">Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family.</td></tr> <tr> <td data-bbox="418 520 662 604">font-family</td><td data-bbox="662 520 1482 604">Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property.</td></tr> <tr> <td data-bbox="418 604 662 720">font-size</td><td data-bbox="662 604 1482 720">Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property.</td></tr> <tr> <td data-bbox="418 720 662 993">font-style</td><td data-bbox="662 720 1482 993"> <p>Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• normal</li> <li>• italic</li> <li>• oblique - Treated the same as italic.</li> </ul> </td></tr> <tr> <td data-bbox="418 993 662 1224">font-variant</td><td data-bbox="662 993 1482 1224"> <p>Specifies the variant style of a font. Default is normal. The values are the same as those of the CSS font-variant property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• normal</li> <li>• small-caps</li> </ul> </td></tr> <tr> <td data-bbox="418 1224 662 1843">font-weight</td><td data-bbox="662 1224 1482 1843"> <p>Specifies the thickness of the letters of the font. Default is normal. The values are the same as those of the CSS font-weight property. Allowed values are:</p> <table border="1"> <tr> <th data-bbox="678 1371 878 1417">Value</th><th data-bbox="878 1371 1474 1417">Description</th></tr> <tr> <td data-bbox="678 1417 878 1459">normal</td><td data-bbox="878 1417 1474 1459" rowspan="6">Treated as non-bold.</td></tr> <tr> <td data-bbox="678 1459 878 1501">lighter</td></tr> <tr> <td data-bbox="678 1501 878 1543">100</td></tr> <tr> <td data-bbox="678 1543 878 1585">200</td></tr> <tr> <td data-bbox="678 1585 878 1627">300</td></tr> <tr> <td data-bbox="678 1627 878 1669">400</td></tr> <tr> <td data-bbox="678 1669 878 1843">bold</td><td data-bbox="878 1669 1474 1843">Treated as bold.</td></tr> </table> </td></tr> </table> | Property | Description | font   | Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family. | font-family | Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property. | font-size | Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property. | font-style | <p>Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• normal</li> <li>• italic</li> <li>• oblique - Treated the same as italic.</li> </ul> | font-variant     | <p>Specifies the variant style of a font. Default is normal. The values are the same as those of the CSS font-variant property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• normal</li> <li>• small-caps</li> </ul> | font-weight | <p>Specifies the thickness of the letters of the font. Default is normal. The values are the same as those of the CSS font-weight property. Allowed values are:</p> <table border="1"> <tr> <th data-bbox="678 1371 878 1417">Value</th><th data-bbox="878 1371 1474 1417">Description</th></tr> <tr> <td data-bbox="678 1417 878 1459">normal</td><td data-bbox="878 1417 1474 1459" rowspan="6">Treated as non-bold.</td></tr> <tr> <td data-bbox="678 1459 878 1501">lighter</td></tr> <tr> <td data-bbox="678 1501 878 1543">100</td></tr> <tr> <td data-bbox="678 1543 878 1585">200</td></tr> <tr> <td data-bbox="678 1585 878 1627">300</td></tr> <tr> <td data-bbox="678 1627 878 1669">400</td></tr> <tr> <td data-bbox="678 1669 878 1843">bold</td><td data-bbox="878 1669 1474 1843">Treated as bold.</td></tr> </table> | Value | Description | normal | Treated as non-bold. | lighter | 100 | 200 | 300 | 400 | bold | Treated as bold. |
| Property     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |             |        |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |                  |                                                                                                                                                                                                                                          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |
| font         | Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |             |        |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |                  |                                                                                                                                                                                                                                          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |
| font-family  | Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |             |        |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |                  |                                                                                                                                                                                                                                          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |
| font-size    | Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |             |        |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |                  |                                                                                                                                                                                                                                          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |
| font-style   | <p>Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• normal</li> <li>• italic</li> <li>• oblique - Treated the same as italic.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |             |        |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |                  |                                                                                                                                                                                                                                          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |
| font-variant | <p>Specifies the variant style of a font. Default is normal. The values are the same as those of the CSS font-variant property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• normal</li> <li>• small-caps</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |             |        |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |                  |                                                                                                                                                                                                                                          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |
| font-weight  | <p>Specifies the thickness of the letters of the font. Default is normal. The values are the same as those of the CSS font-weight property. Allowed values are:</p> <table border="1"> <tr> <th data-bbox="678 1371 878 1417">Value</th><th data-bbox="878 1371 1474 1417">Description</th></tr> <tr> <td data-bbox="678 1417 878 1459">normal</td><td data-bbox="878 1417 1474 1459" rowspan="6">Treated as non-bold.</td></tr> <tr> <td data-bbox="678 1459 878 1501">lighter</td></tr> <tr> <td data-bbox="678 1501 878 1543">100</td></tr> <tr> <td data-bbox="678 1543 878 1585">200</td></tr> <tr> <td data-bbox="678 1585 878 1627">300</td></tr> <tr> <td data-bbox="678 1627 878 1669">400</td></tr> <tr> <td data-bbox="678 1669 878 1843">bold</td><td data-bbox="878 1669 1474 1843">Treated as bold.</td></tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Value    | Description | normal | Treated as non-bold.                                                                                                                                                                                                                                | lighter     | 100                                                                                                                      | 200       | 300                                                                                                                                                      | 400        | bold                                                                                                                                                                                                                                                                                   | Treated as bold. |                                                                                                                                                                                                                                          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |
| Value        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |             |        |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |                  |                                                                                                                                                                                                                                          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |
| normal       | Treated as non-bold.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |             |        |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |                  |                                                                                                                                                                                                                                          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |
| lighter      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |             |        |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |                  |                                                                                                                                                                                                                                          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |
| 100          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |             |        |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |                  |                                                                                                                                                                                                                                          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |
| 200          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |             |        |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |                  |                                                                                                                                                                                                                                          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |
| 300          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |             |        |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |                  |                                                                                                                                                                                                                                          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |
| 400          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |             |        |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |                  |                                                                                                                                                                                                                                          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |
| bold         | Treated as bold.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |             |        |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |                  |                                                                                                                                                                                                                                          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |

| Attributes            | Description |                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |             | <p><b>bolder</b></p> <p>500</p> <p>600</p> <p>700</p> <p>800</p> <p>900</p>                                                                                                                                                                                                                                                                       |
| mso-text-shadow       |             | <p>Specifies whether a shadow is applied to the text on a text path. Default is false.</p>                                                                                                                                                                                                                                                        |
| text-decoration       |             | <p>Specifies the style of text decoration. Default is none. The values are the same as those of the CSS text-decoration property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• none</li> <li>• underline</li> <li>• overline</li> <li>• line-through</li> <li>• blink</li> </ul>                                              |
| v-rotate-letters      |             | <p>Specifies whether the letters of the text are rotated counterclockwise by 90 degrees. Default is false.</p>                                                                                                                                                                                                                                    |
| v-same-letter-heights |             | <p>Specifies whether all letters are the same height regardless of initial case. If true, the lowercase letters are stretched to the height of the uppercase letters. Default is false.</p>                                                                                                                                                       |
| v-text-align          |             | <p>Specifies the alignment of text. Default is left. Allowed values are:</p> <ul style="list-style-type: none"> <li>• left</li> <li>• right</li> <li>• center</li> <li>• justify</li> <li>• letter-justify - Distributes the extra space between the letters.</li> <li>• stretch-justify - Stretches the letters to fill in the space.</li> </ul> |
| v-text-kern           |             | <p>Specifies whether kerning is turned on. Default is false.</p>                                                                                                                                                                                                                                                                                  |
| v-text-reverse        |             | <p>Specifies whether the layout order of rows is reversed. Default is false. This is used for vertical text layout.</p>                                                                                                                                                                                                                           |



| Attributes                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                              |             |              |                                                                                  |  |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|----------------------------------------------------------------------------------|--|
|                                   | v-text-spacing-mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Specifies the mode for letter spacing. Default is tightening. This property determines whether space is removed between each letter (tightening) or added between each letter (tracking). The amount of letter spacing change is defined by the v-text-spacing property. Allowed values are: <ul style="list-style-type: none"><li>• tightening</li><li>• tracking</li></ul> |             |              |                                                                                  |  |
|                                   | v-text-spacing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Specifies the amount of spacing for text in 100ths of single line spacing. Default is 100.                                                                                                                                                                                                                                                                                   |             |              |                                                                                  |  |
|                                   | <p>The line (§19.1.2.12), polyline (§19.1.2.15) and curve (§19.1.2.3) elements ignore the following properties:</p> <ul style="list-style-type: none"><li>• top</li><li>• left</li><li>• width</li><li>• height</li></ul> <p>The following properties are not inherited by an element that references a shapetype element (§19.1.2.20) via the id attribute:</p> <ul style="list-style-type: none"><li>• flip</li><li>• height</li><li>• left</li><li>• margin-left</li><li>• margin-top</li><li>• position</li><li>• rotation</li><li>• top</li><li>• visibility</li><li>• width</li><li>• z-index</li></ul> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |                                                                                                                                                                                                                                                                                                                                                                              |             |              |                                                                                  |  |
| target (Hyperlink Display Target) | Specifies a frame or window that a URL is displayed in. Default is no value. Allowed values are:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                              |             |              |                                                                                  |  |
|                                   | <table><tr><th>Value</th><th>Description</th></tr><tr><td>&lt;targetname&gt;</td><td>String containing the name of the frame or window in which to load the document.</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Value                                                                                                                                                                                                                                                                                                                                                                        | Description | <targetname> | String containing the name of the frame or window in which to load the document. |  |
| Value                             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                              |             |              |                                                                                  |  |
| <targetname>                      | String containing the name of the frame or window in which to load the document.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                              |             |              |                                                                                  |  |

| Attributes                                                                                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                     |                                                                                                 |                     |                                                                                  |                      |                                                                                                             |                      |                                                                              |                    |                                                                                                                 |                   |                                                                       |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------|
|                                                                                                 | <table border="1"> <tr> <td data-bbox="415 247 626 327"><code>_blank</code></td><td data-bbox="626 247 1479 327">Specifies that the linked document is loaded into a new blank window. This window is not named.</td></tr> <tr> <td data-bbox="415 327 626 407"><code>_media</code></td><td data-bbox="626 327 1479 407">Specifies that the linked document is loaded into the browser's multimedia pane.</td></tr> <tr> <td data-bbox="415 407 626 487"><code>_parent</code></td><td data-bbox="626 407 1479 487">Specifies that the linked document is loaded into the immediate parent of the document containing the link.</td></tr> <tr> <td data-bbox="415 487 626 567"><code>_search</code></td><td data-bbox="626 487 1479 567">Specifies that the linked document is loaded into the browser's search pane.</td></tr> <tr> <td data-bbox="415 567 626 646"><code>_self</code></td><td data-bbox="626 567 1479 646">Specifies that the linked document is loaded into the window in which the link was clicked (the active window).</td></tr> <tr> <td data-bbox="415 646 626 726"><code>_top</code></td><td data-bbox="626 646 1479 726">Specifies that the linked document is loaded into the topmost window.</td></tr> </table> <p>[Example:</p> <pre>&lt;v:shape ...   href="http://www.openxmlformats.org"   target="_self" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> | <code>_blank</code> | Specifies that the linked document is loaded into a new blank window. This window is not named. | <code>_media</code> | Specifies that the linked document is loaded into the browser's multimedia pane. | <code>_parent</code> | Specifies that the linked document is loaded into the immediate parent of the document containing the link. | <code>_search</code> | Specifies that the linked document is loaded into the browser's search pane. | <code>_self</code> | Specifies that the linked document is loaded into the window in which the link was clicked (the active window). | <code>_top</code> | Specifies that the linked document is loaded into the topmost window. |
| <code>_blank</code>                                                                             | Specifies that the linked document is loaded into a new blank window. This window is not named.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     |                                                                                                 |                     |                                                                                  |                      |                                                                                                             |                      |                                                                              |                    |                                                                                                                 |                   |                                                                       |
| <code>_media</code>                                                                             | Specifies that the linked document is loaded into the browser's multimedia pane.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |                                                                                                 |                     |                                                                                  |                      |                                                                                                             |                      |                                                                              |                    |                                                                                                                 |                   |                                                                       |
| <code>_parent</code>                                                                            | Specifies that the linked document is loaded into the immediate parent of the document containing the link.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                     |                                                                                                 |                     |                                                                                  |                      |                                                                                                             |                      |                                                                              |                    |                                                                                                                 |                   |                                                                       |
| <code>_search</code>                                                                            | Specifies that the linked document is loaded into the browser's search pane.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |                                                                                                 |                     |                                                                                  |                      |                                                                                                             |                      |                                                                              |                    |                                                                                                                 |                   |                                                                       |
| <code>_self</code>                                                                              | Specifies that the linked document is loaded into the window in which the link was clicked (the active window).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     |                                                                                                 |                     |                                                                                  |                      |                                                                                                             |                      |                                                                              |                    |                                                                                                                 |                   |                                                                       |
| <code>_top</code>                                                                               | Specifies that the linked document is loaded into the topmost window.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     |                                                                                                 |                     |                                                                                  |                      |                                                                                                             |                      |                                                                              |                    |                                                                                                                 |                   |                                                                       |
| title (Shape Title)                                                                             | <p>Specifies the text displayed when the mouse pointer moves over the shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... title="tooltip" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |                                                                                                 |                     |                                                                                  |                      |                                                                                                             |                      |                                                                              |                    |                                                                                                                 |                   |                                                                       |
| userdrawn (Exists In Master Slide)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies whether the user has added the shape to a master slide. Default is false. Used by PresentationML.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:userdrawn="true" ... &gt; &lt;/v:shape&gt;</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                     |                                                                                                 |                     |                                                                                  |                      |                                                                                                             |                      |                                                                              |                    |                                                                                                                 |                   |                                                                       |

| Attributes                                                                                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                       | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <p>userhidden (Hide Script Anchors)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether a script anchor is hidden. Default is false. If true, script anchors stay hidden even if the shape is otherwise visible. A script anchor is the visual representation of a script that when displayed in an application.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:userhidden="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                           |
| <p>wrapcoords (Shape Bounding Polygon)</p>                                                            | <p>Specifies the bounding polygon that surrounds a shape. This is specified using a comma-delimited list of x and y coordinates: "x1,y1,x2,y2,x3,y3,..." This is used when text is tightly wrapped around a shape. Default is no value until the mso-wrap-mode style attribute is set to tight or through.</p> <p>[Example:</p> <pre>&lt;v:shape ... wrapcoords="0,0 0,200, 200,200, 200,0" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |

[Note: The W3C XML Schema definition of this element's content model (CT\_Oval) is located in §A.6.1. *end note]*

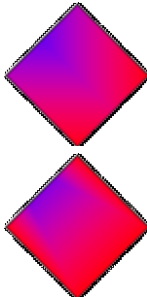
#### 19.1.2.14 path (Shape Path)

This element defines the path that makes up the shape. This is done through a string that contains a rich set of pen movement commands. This element also describes the limo-stretch point, inscribed textbox rectangle locations and connection site locations. The limo-stretch definition and the formulas element (§19.1.2.6) allow greater designer control of how the path scales. [Example: They allow, for example, definition of a true rounded corner rectangle where the corners remain circular even though the rectangle is scaled anisotropically. *end example]*

| Parent Elements                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arc (§19.1.2.1); background (Part 1, §17.2.1); curve (§19.1.2.3); group (§19.1.2.7); image (§19.1.2.10); line (§19.1.2.12); object (Part 1, §17.3.3.19); oval (§19.1.2.13); pict (§14.2.2.2); pict (§14.5.1); polyline (§19.1.2.15); rect (§19.1.2.16); roundrect (§19.1.2.17); shape (§19.1.2.19); shapetype (§19.1.2.20) |

| Attributes                                                | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>arrowok</b><br>(Arrowhead Display Toggle)              | <p>Specifies whether arrowheads are allowed to be displayed. This attribute overrides all other arrowhead attributes in the parent or the stroke element (§19.1.2.21). Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape style="width:50;height:50"&gt;   &lt;v:stroke endarrow="block"/&gt;   &lt;v:path arrowok="true"     v="m 0,0 l 1000,0 1000,1000 e"/&gt; &lt;/v:shape&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <b>connectangles</b><br>(Connection Point Connect Angles) | <p>Specifies the angle at which curves connect to a shape's connection points. The connection angles are defined by a string consisting of angle values delimited by commas. Default is no value.</p> <p>[Example: Connections are made along the horizontal and vertical axes:</p> <pre>&lt;v:path ... o:connectangles="0,90,180,270" ... &gt; &lt;/v:path&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                  |
| <b>connectlocs</b><br>(Connection Points)                 | <p>Specifies the location of connection points on a path. The connection points are defined by a string consisting of pairs of x and y values, delimited by commas. This is used if connecttype is custom. Default is no value.</p> <p>[Example: Connection points exist at the midpoints of the sides of the square:</p>                                                                                                                                                                                                                                                                                   |

| Attributes                                                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| com:office:office                                                                                           | <pre>&lt;v:path ... v="m 0,0 1 100,0 100,100 0,100 x e"   o:connectlocs="50,0;100,50;50,100;0,50" ... &gt; &lt;/v:path&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| connecttype<br>(Connection Point Type)<br><br>Namespace:<br>urn:schemas-<br>microsoft-<br>com:office:office | <p>Specifies the kind of connection points used for attaching shapes to other shapes. Default is none. If set to custom, connectlocs is used. Allowed values are:</p> <p>[Example:</p> <pre>&lt;v:path ... o:connecttype="custom"   o:connectlocs="50,0;100,50;50,100;0,50" ... &gt; &lt;/v:path&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ConnectType simple type (§19.2.3.8).</p>                                                                                                                                                                                                                                                                                                   |
| extrusionok<br>(Extrusion Toggle)<br><br>Namespace:<br>urn:schemas-<br>microsoft-<br>com:office:office      | <p>Specifies whether an extrusion is allowed to be displayed. This attribute overrides all other extrusion attributes in the parent or the extrusion element (§19.2.2.11). Default is true.</p> <p>[Example:</p> <pre>&lt;v:rect fillcolor="lime"   style="width:50;height:50"&gt;   &lt;v:extrusion on="true"/&gt;   &lt;v:path o:extrusionok="false"/&gt; &lt;/v:rect&gt;</pre> <div data-bbox="451 1423 555 1528" data-label="Image"> </div> <pre>&lt;v:path o:extrusionok="false"/&gt;</pre> <div data-bbox="451 1537 587 1675" data-label="Image"> </div> <pre>&lt;v:path o:extrusionok="true"/&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |

| Attributes                                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>fillok (Shape Fill Toggle)</b>              | <p>Specifies whether a fill is allowed to be displayed. This attribute overrides all other fill attributes in the parent or fill element (§19.1.2.5). Default is true.</p> <p>[Example:</p> <pre> &lt;v:shape style="width:50;height:50"   fillcolor="red"&gt;   &lt;v:path fillok="false"     v="m 0,0 l 0,1000, 1000,1000, 1000,0 x e"/&gt; &lt;/v:shape&gt; </pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                |
| <b>gradientshapeok (Gradient Shape Toggle)</b> | <p>Specifies whether a gradient path is made up of repeated concentric paths. Default is false.</p> <p>If true, a gradient fill can be produced by repeated drawing of scaled versions of the path - this shall only be set if it is possible to scale the path in such a way that a fill is always contained in the original path. This controls the interpretation of the type="gradientradial" attribute of the fill element (§19.1.2.5).</p> <p>[Example: In the first case, the radial gradient is aligned irrespective of the shape's path:</p> <pre> &lt;v:shape style="width:50;height:50;rotation:45"   path="m 0,0 l 0,1000, 1000,1000, 1000,0 x e"&gt;   &lt;v:path gradientshapeok="false"/&gt;   &lt;v:fill type="gradientradial"     color="red" color2="blue"/&gt; &lt;/v:shape&gt; </pre>  <p>end example]</p> |

| Attributes                                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                 | <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                        |
| <p>id (Unique Identifier)</p>                   | <p>Specifies a unique identifier that can be used to reference a VML object.</p> <p>Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... id="myShape" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                          |
| <p>insetpenok (Inset Stroke From Path Flag)</p> | <p>Specifies whether the stroke can be inset from the path. If this is false, it overrides the insetpen attribute and prevents the stroke from being inset.</p> <p>[Example: The stroke is not inset:</p> <pre>&lt;v:shape ... insetpen="true"&gt;   &lt;v:path ... insetpenok="false"/&gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <p>limo (Limo Stretch Point)</p>                | <p>Specifies a stretch point on the shape's edge that defines where and how a shape is allowed to be stretched by a user in a graphical editor. Default is "0,0".</p> <p>[Example:</p> <pre>&lt;v:line from="20pt,20pt" to="100pt,20pt"&gt;   &lt;v:path limo="60pt,20pt"/&gt; &lt;/v:line&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                     |
| <p>shadowok (Shadow Toggle)</p>                 | <p>Specifies whether a shadow is allowed to be displayed. This attribute overrides all other shadow attributes in the parent or the shadow element (§19.1.2.18). Default is true.</p>                                                                                                                                                                                                                                                         |

| Attributes                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                     | <p>[Example: The shape has no shadow:</p> <pre>&lt;v:shape style="width:50;height:50"&gt;   &lt;v:path v="m 0,0 l 0,1000, 1000,1000, 1000,0 x e"     shadowok="false"/&gt;   &lt;v:shadow on="true"/&gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| strokeok (Stroke Toggle)            | <p>Specifies whether a stroke is displayed. This attribute overrides all other stroke attributes in the parent or the stroke element (§19.1.2.21). Default is true.</p> <p>[Example: The shape's red stroke is not shown:</p> <pre>&lt;v:shape style="width:50;height:50"   fillcolor="blue" strokecolor="red"&gt;   &lt;v:path v="m 0,0 l 0,1000, 1000,1000, 1000,0 x e"     strokeok="false"/&gt; &lt;/v:shape&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                   |
| textboxrect (Text Box Bounding Box) | <p>Specifies one or more text boxes inside a shape. Default is the same as the geometry's bounding box.</p> <p>A textbox is defined by one or more sets of numbers specifying (in order) the left, top, right, and bottom points of the rectangle. Multiple sets are delimited by a semicolon. The default value is the same dimension value as the containing rectangle. If more than one textbox is defined, the comma-delimited quadruple sets that define each textbox are separated by semicolons. Normally textboxes come in sets of 1, 2, 3, or 6 rectangles on a shape. The textboxrect dimensions clip any text that extends beyond its region.</p> <p>[Example: The textbox is 25% down from the top and the exclamation point is clipped:</p> <pre>&lt;v:shape style="width:60;height:50"&gt;   &lt;v:path v="m 0,0 l 0,1000, 1000,1000, 1000,0 x e"     textboxrect="0,250,850,1000"/&gt;</pre> |



| Attributes                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                               | <p><code>&lt;v:textbox&gt;VML!&lt;/v:textbox&gt;</code><br/> <code>&lt;/v:shape&gt;</code></p> <div data-bbox="415 348 535 449" data-label="Image"> </div> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| textpathok (Text Path Toggle) | <p>Specifies whether a text path is displayed. Default is false.</p> <p>If true, this indicates that the path is an appropriate warping path for the textpath element (§19.1.2.23). Otherwise, the textpath element shall be ignored.</p> <p>[Example: The defined textpath is ignored:</p> <pre> &lt;v:curve from="50,100" to="400,100"   control1="200,200" control2="300,200"&gt;   &lt;v:path textpathok="false"&gt;   &lt;v:textpath on="false" style="font:normal normal     normal 36pt Arial" string="textpath"/&gt; &lt;/v:curve&gt; </pre> <div data-bbox="415 1129 1117 1289" data-label="Image"> </div> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                  |
| v (Path Definition)           | <p>Specifies a string containing the commands that define the shape's path. This value consists of commands followed by zero or more parameters. Default is no value.</p> <p>The following rules apply to path strings:</p> <ul style="list-style-type: none"> <li>Commas or spaces delimit parameters for each command. Both "m 0,0" and "m0 0" are acceptable.</li> <li>A parameter that is omitted using commas is treated as having a value of zero. Thus, "c 10,10,0,0,25,13" and "c 10,10,,,25,13" are equivalent.</li> <li>Parameterized paths are also allowed. In this case, the shape shall also have a formulas element (§19.1.2.6) with a list of formulas that are substituted into the path using the @ symbol followed by the number of the formula. The adj</li> </ul> |

| Attributes | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |                                                                                                                                                                                      |            |             |   |        |   |                                                     |   |        |    |                                                                                                                                                                 |   |         |    |                                                                                                                                                                  |   |       |   |                                                                                                            |   |     |   |                                                                                                                                                                                      |   |         |    |                                                                                        |   |         |    |                                                                                     |   |          |    |                                                                              |    |        |   |                                                              |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|---|--------|---|-----------------------------------------------------|---|--------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------|---|------------------------------------------------------------------------------------------------------------|---|-----|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------|----|----------------------------------------------------------------------------------------|---|---------|----|-------------------------------------------------------------------------------------|---|----------|----|------------------------------------------------------------------------------|----|--------|---|--------------------------------------------------------------|
|            | <p>property of the shape contains the input parameters for these formulas. [Example: For example, "moveto @1@4". end example] The evaluations of the formulas are substituted into the appropriate positions. The @ character also serves as a delimiter.</p> <p>The allowed commands are given below. An asterisk (*) indicates that the command is allowed to be repeated. For the qb command, the controlpoint parameter is also allowed to be repeated.</p> <table><tr><th>Command</th><th>Name</th><th>Parameters</th><th>Description</th></tr><tr><td>m</td><td>moveto</td><td>2</td><td>Start a new sub-path at the given (x,y) coordinate.</td></tr><tr><td>l</td><td>lineto</td><td>2*</td><td>Draw a line from the current point to the given (x,y) coordinate which becomes the new current point. Specifying a number of coordinate pairs forms a polyline.</td></tr><tr><td>c</td><td>curveto</td><td>6*</td><td>Draw a cubic bézier curve from the current point to the coordinate given by the final two parameters. The control points are given by the first four parameters.</td></tr><tr><td>x</td><td>close</td><td>0</td><td>Close the current sub-path by drawing a straight line from the current point to the original moveto point.</td></tr><tr><td>e</td><td>end</td><td>0</td><td>End the current set of sub-paths. A given set of sub-paths (as delimited by end) is filled. Subsequent sets of sub-paths are filled independently and superimposed on existing ones.</td></tr><tr><td>t</td><td>rmoveto</td><td>2*</td><td>Start a new sub-path at a coordinate relative to the current point, cp (cpx+x, cpy+y).</td></tr><tr><td>r</td><td>rlineto</td><td>2*</td><td>Draw a line from the current point to the given relative coordinate (cpx+x, cpy+y).</td></tr><tr><td>v</td><td>rcurveto</td><td>6*</td><td>Cubic bézier curve using the given coordinate relative to the current point.</td></tr><tr><td>nf</td><td>nofill</td><td>0</td><td>The current set of sub-paths (delimited by e) is not filled.</td></tr></table> | Command    | Name                                                                                                                                                                                 | Parameters | Description | m | moveto | 2 | Start a new sub-path at the given (x,y) coordinate. | l | lineto | 2* | Draw a line from the current point to the given (x,y) coordinate which becomes the new current point. Specifying a number of coordinate pairs forms a polyline. | c | curveto | 6* | Draw a cubic bézier curve from the current point to the coordinate given by the final two parameters. The control points are given by the first four parameters. | x | close | 0 | Close the current sub-path by drawing a straight line from the current point to the original moveto point. | e | end | 0 | End the current set of sub-paths. A given set of sub-paths (as delimited by end) is filled. Subsequent sets of sub-paths are filled independently and superimposed on existing ones. | t | rmoveto | 2* | Start a new sub-path at a coordinate relative to the current point, cp (cpx+x, cpy+y). | r | rlineto | 2* | Draw a line from the current point to the given relative coordinate (cpx+x, cpy+y). | v | rcurveto | 6* | Cubic bézier curve using the given coordinate relative to the current point. | nf | nofill | 0 | The current set of sub-paths (delimited by e) is not filled. |
| Command    | Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Parameters | Description                                                                                                                                                                          |            |             |   |        |   |                                                     |   |        |    |                                                                                                                                                                 |   |         |    |                                                                                                                                                                  |   |       |   |                                                                                                            |   |     |   |                                                                                                                                                                                      |   |         |    |                                                                                        |   |         |    |                                                                                     |   |          |    |                                                                              |    |        |   |                                                              |
| m          | moveto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2          | Start a new sub-path at the given (x,y) coordinate.                                                                                                                                  |            |             |   |        |   |                                                     |   |        |    |                                                                                                                                                                 |   |         |    |                                                                                                                                                                  |   |       |   |                                                                                                            |   |     |   |                                                                                                                                                                                      |   |         |    |                                                                                        |   |         |    |                                                                                     |   |          |    |                                                                              |    |        |   |                                                              |
| l          | lineto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2*         | Draw a line from the current point to the given (x,y) coordinate which becomes the new current point. Specifying a number of coordinate pairs forms a polyline.                      |            |             |   |        |   |                                                     |   |        |    |                                                                                                                                                                 |   |         |    |                                                                                                                                                                  |   |       |   |                                                                                                            |   |     |   |                                                                                                                                                                                      |   |         |    |                                                                                        |   |         |    |                                                                                     |   |          |    |                                                                              |    |        |   |                                                              |
| c          | curveto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6*         | Draw a cubic bézier curve from the current point to the coordinate given by the final two parameters. The control points are given by the first four parameters.                     |            |             |   |        |   |                                                     |   |        |    |                                                                                                                                                                 |   |         |    |                                                                                                                                                                  |   |       |   |                                                                                                            |   |     |   |                                                                                                                                                                                      |   |         |    |                                                                                        |   |         |    |                                                                                     |   |          |    |                                                                              |    |        |   |                                                              |
| x          | close                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0          | Close the current sub-path by drawing a straight line from the current point to the original moveto point.                                                                           |            |             |   |        |   |                                                     |   |        |    |                                                                                                                                                                 |   |         |    |                                                                                                                                                                  |   |       |   |                                                                                                            |   |     |   |                                                                                                                                                                                      |   |         |    |                                                                                        |   |         |    |                                                                                     |   |          |    |                                                                              |    |        |   |                                                              |
| e          | end                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0          | End the current set of sub-paths. A given set of sub-paths (as delimited by end) is filled. Subsequent sets of sub-paths are filled independently and superimposed on existing ones. |            |             |   |        |   |                                                     |   |        |    |                                                                                                                                                                 |   |         |    |                                                                                                                                                                  |   |       |   |                                                                                                            |   |     |   |                                                                                                                                                                                      |   |         |    |                                                                                        |   |         |    |                                                                                     |   |          |    |                                                                              |    |        |   |                                                              |
| t          | rmoveto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2*         | Start a new sub-path at a coordinate relative to the current point, cp (cpx+x, cpy+y).                                                                                               |            |             |   |        |   |                                                     |   |        |    |                                                                                                                                                                 |   |         |    |                                                                                                                                                                  |   |       |   |                                                                                                            |   |     |   |                                                                                                                                                                                      |   |         |    |                                                                                        |   |         |    |                                                                                     |   |          |    |                                                                              |    |        |   |                                                              |
| r          | rlineto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2*         | Draw a line from the current point to the given relative coordinate (cpx+x, cpy+y).                                                                                                  |            |             |   |        |   |                                                     |   |        |    |                                                                                                                                                                 |   |         |    |                                                                                                                                                                  |   |       |   |                                                                                                            |   |     |   |                                                                                                                                                                                      |   |         |    |                                                                                        |   |         |    |                                                                                     |   |          |    |                                                                              |    |        |   |                                                              |
| v          | rcurveto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6*         | Cubic bézier curve using the given coordinate relative to the current point.                                                                                                         |            |             |   |        |   |                                                     |   |        |    |                                                                                                                                                                 |   |         |    |                                                                                                                                                                  |   |       |   |                                                                                                            |   |     |   |                                                                                                                                                                                      |   |         |    |                                                                                        |   |         |    |                                                                                     |   |          |    |                                                                              |    |        |   |                                                              |
| nf         | nofill                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0          | The current set of sub-paths (delimited by e) is not filled.                                                                                                                         |            |             |   |        |   |                                                     |   |        |    |                                                                                                                                                                 |   |         |    |                                                                                                                                                                  |   |       |   |                                                                                                            |   |     |   |                                                                                                                                                                                      |   |         |    |                                                                                        |   |         |    |                                                                                     |   |          |    |                                                                              |    |        |   |                                                              |

| Attributes | Description |                         |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------|-------------|-------------------------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | ns          | nostroke                | 0  | The current set of sub-paths (delimited by e) is not stroked.                                                                                                                                                                                                                                                                                                                                                                                               |
|            | ae          | angleellipseto          | 6* | Draws a segment of an ellipse as described using these parameters. A straight line is drawn from the current point to the start point of the segment. The parameters are: center (x,y), size(w,h), start angle, end angle.                                                                                                                                                                                                                                  |
|            | al          | angleellipse            | 6* | Same as angleellipseto except that there is an implied moveto the starting point of the segment.                                                                                                                                                                                                                                                                                                                                                            |
|            | at          | arcto                   | 8* | A segment of the ellipse is drawn which starts at the angle defined by the start radius vector and ends at the angle defined by the end vector. A straight line is drawn from the current point to the start of the arc. The arc is always drawn in a counterclockwise direction. The parameters are: left, top, right, bottom, start(x,y), end(x,y). The first four values define the bounding box of an ellipse. The last four define two radial vectors. |
|            | ar          | arc                     | 8* | Same as arcto except there is an implied moveto the start point of the arc.                                                                                                                                                                                                                                                                                                                                                                                 |
|            | wa          | clockwisearco           | 8* | Same as arcto but the arc is drawn in a clockwise direction.                                                                                                                                                                                                                                                                                                                                                                                                |
|            | wr          | clockwisearc            | 8* | Same as arc but the arc is drawn in a clockwise direction                                                                                                                                                                                                                                                                                                                                                                                                   |
|            | qx          | ellipticalquadrant<br>x | 2* | A quarter ellipse is drawn from the current point to the given end point. The elliptical segment is initially tangential to a line parallel to the x-axis. (i.e. the segment starts out horizontal). The parameters are: end(x,y).                                                                                                                                                                                                                          |
|            | qy          | ellipticalquadrant<br>y | 2* | Same as ellipticalquadrantx except that the elliptical segment is initially tangential to a line parallel to the y-axis (i.e. the segment starts out vertical).                                                                                                                                                                                                                                                                                             |

| Attributes | Description                                                                               |                 |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------|-------------------------------------------------------------------------------------------|-----------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | qb                                                                                        | quadraticbezier | 2+2* | Defines one or more quadratic bézier curves by means of control points and an end point. Intermediate (on-curve) points are obtained by interpolation between successive control points as in the OpenType font specification. The sub-path need not be started in which case the sub-path is closed. In this case the last point of the sub-path defines the start point of the quadratic bézier. The parameters are: controlpoint(x,y)*, end(x,y). |
|            | The possible values for this attribute are defined by the W3C XML Schema string datatype. |                 |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

[Note: The W3C XML Schema definition of this element’s content model ([CT\\_Path](#)) is located in §A.6.1. *end note*]

19.1.2.15 [polyline \(Multiple Path Line\)](#)

This element defines shapes made up of connected line segments.

[Example:

```
<v:polyline
  points="50pt,0pt 120pt,50pt 150pt,100pt 170pt,75pt 250pt,50pt">
</v:polyline>
```



*end example*]

| Parent Elements                                                                                                |
|----------------------------------------------------------------------------------------------------------------|
| background (Part 1, §17.2.1); group (§19.1.2.7); object (Part 1, §17.3.3.19); pict (§14.2.2.2); pict (§14.5.1) |

| Child Elements                         | Subclause  |
|----------------------------------------|------------|
| anchorlock (Anchor Location Is Locked) | §19.3.2.1  |
| borderbottom (Bottom Border)           | §19.3.2.2  |
| borderleft (Left Border)               | §19.3.2.3  |
| borderright (Right Border)             | §19.3.2.4  |
| bordertop (Top Border)                 | §19.3.2.5  |
| callout (Callout)                      | §19.2.2.2  |
| ClientData (Attached Object Data)      | §19.4.2.12 |
| clippath (Shape Clipping Path)         | §19.2.2.3  |
| extrusion (3D Extrusion)               | §19.2.2.11 |
| fill (Shape Fill Properties)           | §19.1.2.5  |
| formulas (Set of Formulas)             | §19.1.2.6  |
| handles (Set of Handles)               | §19.1.2.9  |
| imagedata (Image Data)                 | §19.1.2.11 |
| ink (Ink)                              | §19.2.2.15 |
| lock (Shape Protections)               | §19.2.2.18 |
| path (Shape Path)                      | §19.1.2.14 |
| shadow (Shadow Effect)                 | §19.1.2.18 |
| signatureline (Digital Signature Line) | §19.2.2.30 |
| skew (Skew Transform)                  | §19.2.2.31 |
| stroke (Line Stroke Settings)          | §19.1.2.21 |
| textbox (Text Box)                     | §19.1.2.22 |
| textdata (VML Diagram Text)            | §19.5.2.2  |
| textpath (Text Layout Path)            | §19.1.2.23 |
| wrap (Text Wrapping)                   | §19.3.2.6  |

| Attributes                                                                                     | Description                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| allowincell (Allow in Table Cell)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies whether a shape can be placed in a table. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:allowincell="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type</p> |

| Attributes                                                                                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>allowoverlap<br/>(Allow Shape Overlap)</p> <p>Namespace:<br/>urn:schemas-<br/>microsoft-<br/>com:office:office</p>      | <p>(§20.1.2.5).</p> <p>Specifies whether a shape can overlap another shape. Default is true. If false, the shape shifts left or right so as not to overlap another shape, similar to the behavior of the HTML float attribute.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:allowoverlap="false" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                               |
| <p>alt (Alternate Text)</p>                                                                                                | <p>Specifies alternative text describing the graphical object. This text should provide a brief description of the shape for use by accessibility tools. Default is no value.</p> <p>[Example: The alt text describes the basic shape.</p> <pre>&lt;v:shape ... fillcolor="red" alt="Red rectangle"&gt; &lt;/v:shape&gt;</pre> <p>The alt text describes the contents of a shape displaying an image:</p> <pre>&lt;v:shape ... alt="Picture of a sunset"&gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <p>borderbottomcolor<br/>(Bottom Border Color)</p> <p>Namespace:<br/>urn:schemas-<br/>microsoft-<br/>com:office:office</p> | <p>Specifies the bottom border color of an inline shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:borderbottomcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                   |
| <p>borderleftcolor<br/>(Border Left Color)</p>                                                                             | <p>Specifies the left border color of an inline shape. Default is no value.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| Attributes                                                                                            | Description                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Namespace:<br>urn:schemas-microsoft-com:office:office                                                 | <p>[Example:</p> <pre>&lt;v:shape ... o:borderleftcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                   |
| bodderrightcolor<br>(Border Right Color)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies the right border color of an inline shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:bodderrightcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| bordertopcolor<br>(Border Top Color)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office     | <p>Specifies the top border color of an inline shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:bordertopcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>     |
| bullet (Graphical Bullet)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office                | <p>Specifies whether the shape is a graphical bullet. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:bullet="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>         |
| button (Button Behavior Toggle)                                                                       | <p>Specifies whether a shape exhibits button press behavior on click. Default is false.</p> <p>[Example:</p>                                                                                                                                                                                         |

| Attributes                                                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Namespace:<br>urn:schemas-microsoft-com:office:office                                               | <pre>&lt;v:shape ... o:button="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| bwmode (Black-and-White Mode)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office          | <p>Specifies how a shape renders for black-and-white output devices. When a shape is printed on a black-and-white printer or displayed in a black-and-white view in an application, several options are possible. Default is auto, which uses o:bwnormal for normal black-and-white rendering and o:bwpure for pure black-and-white rendering.</p> <p>bwnormal and bwpure are subordinate to bwmode. If bwmode is "auto" then the value for bwnormal or bwpure is used depending on what the output format is. An application can define for itself what, if any, difference there is between normal B&amp;W and pure B&amp;W. <i>[Example: Normal B&amp;W might allow greyscale and pure B&amp;W might not. end example]</i></p> <p><i>[Example: This shape renders in grayscale in a black-and-white environment:</i></p> <pre>&lt;v:shape ... o:bwmode="grayscale" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3).</p> |
| bwnormal (Normal Black-and-White Mode)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies the black-and-white mode for normal black-and-white output devices. Default is auto.</p> <p><i>[Example: This shape renders in a pale grayscale in a normal black-and-white environment:</i></p> <pre>&lt;v:shape ... o:bwmode="auto" o:bwnormal="lightgrayscale" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| bwpure (Pure Black-and-White Mode)<br><br>Namespace:                                                | <p>Specifies the black-and-white mode for pure black-and-white output devices. Default is auto.</p> <p><i>[Example: This shape renders in high contrast when in a pure black-and-white environment:</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |



| Attributes                                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| urn:schemas-microsoft-com:office:office                            | <p>&lt;v:shape ... o:bwmode="auto" o:bwpure="highcontrast" ... &gt;<br/>&lt;/v:shape&gt;</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3).</p>                                                                                                                                                                                                                                                                                                    |
| chromakey (Image Transparency Color)                               | <p>Specifies a color value that is transparent and show anything behind the shape. Default is no value.</p> <p>[Example:</p> <p>&lt;v:image ... chromakey="white" ...&gt;<br/>&lt;/v:image&gt;</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p>                                                                                                                                                                                           |
| class (CSS Reference)                                              | <p>Specifies a reference to the definition of a CSS style. Default is no value.</p> <p>[Example: The snippets below are equivalent:</p> <p>...</p> <p>.narrowstyle {width:50;height:100}</p> <p>...</p> <p>&lt;v:shape ... class="narrowstyle"<br/>style="top:1;left:1"&gt;<br/>&lt;/v:shape&gt;</p> <p>&lt;v:shape ... style="top:1;left:1;<br/>width:50;height:100"&gt;<br/>&lt;/v:shape&gt;</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| clip (Clipping Toggle)<br><br>Namespace:<br>urn:schemas-microsoft- | <p>Specifies that the clipping region is active. This is used in conjunction with the clippath (§19.2.2.3) element to create a clipping region.</p> <p>[Example:</p> <p>&lt;v:shape ... o:clip="true"&gt;</p>                                                                                                                                                                                                                                                                                                                  |

| Attributes                                                                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| com:office:office                                                                                  | <p>&lt;/v:shape&gt;</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| cliptowrap (Clip to Wrapping Polygon)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies that the clipping region for the shape aligns with the wrapping polygon that tightly surrounds the entire shape (essentially, that the shape shall not be drawn beyond its wrapping polygon's extents – if it does, the shape shall be clipped). Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:cliptowrap="true"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                           |
| connectortype (Shape Connector Type)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office  | <p>Specifies the kind of connector used for joining shapes. Default is straight.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:connectortype="elbow" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ConnectorType simple type (§19.2.3.7).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| coordorigin (Coordinate Space Origin)                                                              | <p>Specifies the coordinate of the top left corner of the shape's coordinate space. This determines the position of the (0,0) coordinate space origin within the shape's bounding box. Default is "0,0", which places the (0,0) origin at the top left corner of the bounding box.</p> <p>This affects shape properties that specify coordinate positions, such as the path attribute. Thus a path can be defined against a generic (0,0) origin and the coordorigin value translates the entire path within the shape's bounding space.</p> <p>[Example: The horizontal and vertical coordinate space ranges from -100 to +100 because the coordinate space (coordsize) is 200 by 200 and the top left coordinate is (-100,-100). The (0,0) origin lies at the center of the shape's bounding box, as evidenced by the position of the shape's path within the coordinate space:</p> <pre>&lt;v:shape ... coordsize="200,200"</pre> |

| Attributes                                                                                                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                   | <pre> coordorigin="-100,-100" path="m 0,0 l 0,50, 50,50, 50,0 x e"&gt; &lt;/v:shape&gt; </pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>coordsize</b><br>(Coordinate Space Size)                                                                       | <p>Specifies the size of the shape's coordinate space in coordinate units. Default is "1000,1000".</p> <p>The physical size of a coordinate unit length is determined by both the size of the coordinate space (coordsize) and the size of the shape (style width and height). The coordsize attribute defines the number of horizontal and vertical subdivisions into which the shape's bounding box is divided. The combination of coordsize and style width/height effective scales the shape anisotropically.</p> <p>[Example: The path is 50 units wide and tall, which is 25% of the size of the coordinate space:</p> <pre> &lt;v:shape ... coordsize="200,200" coordorigin="-100,-100" path="m 0,0 l 0,50, 50,50, 50,0 x e"&gt; &lt;/v:shape&gt; </pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <b>dgmlayout</b><br>(Diagram Node Layout Identifier)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies the kind of automatic layout to apply to the diagram node. This is only meaningful if the shape is a node in an organization chart, which is denoted by the orgchart value of the editas attribute of the group element.</p> <p>[Example:</p> <pre> &lt;v:shape ... dgmlayout="1"&gt; &lt;/v:shape&gt; </pre> <p><i>end example]</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

| Attributes                                                                                                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                               | <p>The possible values for this attribute are defined by the ST_DiagramLayout simple type (§19.2.3.10).</p>                                                                                                                                                                                                                                                                                                                                                                              |
| <p>dgmlayoutmru<br/>(Diagram Node Recent Layout Identifier)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies the kind of automatic layout most recently used on the child elements of the diagram node. This is only meaningful if the shape is a node in an organization chart, which is denoted by the orgchart value of the editas attribute of the group element.</p> <p>[Example:</p> <pre>&lt;v:shape ... dgmlayout="1"&gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_DiagramLayout simple type (§19.2.3.10).</p> |
| <p>dgmnodekind<br/>(Diagram Node Identifier)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>                | <p>Specifies an optional, application-defined parameter that is intended to be used by the application to tag different types of nodes in a diagram.</p> <p>[Example:</p> <pre>&lt;v:shape ... dgmnodekind="1"&gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema integer datatype.</p>                                                                                                                          |
| <p>doubleclicknotify<br/>(Double-click Notification Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies that an event message is sent when a shape is double-clicked. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:doubleclicknotify="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                             |
| <p>fillcolor (Fill Color)</p>                                                                                                 | <p>Specifies the color to use for the fill. Default is white. If the fill element (§19.1.2.5) is present, its color attribute takes precedence. Colors are typically specified as either a named color, such as red, or six hexadecimal digits representing the red, green and blue values of the color, such as #00FF30. Full details are specified in the simple type description.</p>                                                                                                 |

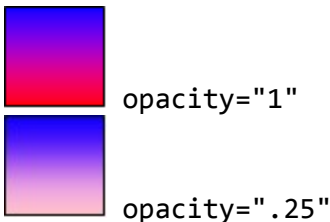
| Attributes                                                                                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                       | <p>[Example: This shape is red if its fill is visible:</p> <pre>&lt;v:shape ... fillcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p>This is equivalent to:</p> <pre>&lt;v:shape ... fillcolor="#ff0000" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p>                                                                                            |
| <p>filled (Shape Fill Toggle)</p>                                                                     | <p>Specifies whether the closed path is filled. Default is <code>true</code>. This attribute is overridden by the fill on attribute.</p> <p>[Example:</p> <pre>&lt;v:shape ... filled="f" fillcolor="red" ...&gt; &lt;/v:shape&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>      |
| <p>forcedash (Force Dashed Outline)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether a dashed outline is used to draw a shape when a shape has no line or fill. Default is <code>false</code>.</p> <p>Used by PresentationML placeholders to draw a dashed outline when there is no line and no fill for a shape.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:forcedash="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type</p> |

| Attributes                                                                                                         | Description                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>hr (Horizontal Rule Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>                   | <p>(§20.1.2.5).</p> <p>Specifies that a shape is a horizontal rule. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hr="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>      |
| <p>hralign (Horizontal Rule Alignment)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>           | <p>Specifies the alignment of a horizontal rule. Default is left.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hralign="center" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_HrAlign simple type (§19.2.3.16).</p>                    |
| <p>href (Hyperlink Target)</p>                                                                                     | <p>Specifies a hyperlink URL target for the shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... href="http://www.openxmlformats.org" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <p>hrnoshade (Horizontal Rule 3D Shading Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies that the horizontal rule does not have 3-D shading. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hrnoshade="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>  |

| Attributes                                                                                                           | Description                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>hrpct (Horizontal Rule Length Percentage)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>       | <p>Specifies the length of a horizontal rule as a percentage of page width. Default is 0.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hrpct="85" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema float datatype.</p>                                       |
| <p>hrstd (Horizontal Rule Standard Display Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether a shape is displayed as a standard horizontal rule. Only applies if hr is true. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hrstd="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <p>id (Unique Identifier)</p>                                                                                        | <p>Specifies a unique identifier that can be used to reference a VML object.</p> <p>Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... id="myShape" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                       |
| <p>insetmode (Text Inset Mode)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>                     | <p>Specifies whether the application calculates the internal text margin instead of using the inset attribute. Default is custom. This attribute is only meaningful for text boxes.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:insetmode="auto" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p>                                       |

| Attributes                                                                                                | Description                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                           | The possible values for this attribute are defined by the ST_InsetMode simple type (§19.2.3.17).                                                                                                                                                                                                                                                                                                                              |
| <b>insetpen</b> (Inset Border From Path)                                                                  | <p>Specifies that the border shall be displayed inside of the path defining the shape, rather than along the path (the default border placement), or outside of the path as might be done with an image.</p> <p>[Example:</p> <pre>&lt;v:shape ... insetpen="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <b>ole</b> (Embedded Object Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office          | <p>Specifies whether the shape is an embedded object. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:ole="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalseBlank simple type (§20.1.2.6).</p>                                                                                                                                |
| <b>oleicon</b> (Embedded Object Icon Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies whether an embedded object is displayed as an icon. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:oleicon="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                      |
| <b>oned</b> (Shape Handle Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office            | <p>Specifies whether the extra handles of a shape are hidden. If true, hides all shape handles except the top left and bottom right; that is, the same handles that are used for a straight line segment. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:oned="true" ... &gt; &lt;/v:shape&gt;</pre>                                                                                                           |



| Attributes                                                                                                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                              | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p>opacity (Fill Color Opacity)</p>                                                                          | <p>Specifies the opacity of the primary fill color. Default is 1.0. This numeric value can also be specified in 1/65536-ths if a trailing "f" is supplied. [<i>Example:</i> A value of "52429f" represents 52429/65536 or 0.8. <i>end example]</i></p> <p>[<i>Example:</i> The red color is 25% opaque:</p> <pre data-bbox="451 653 1015 751">&lt;v:fill type="gradient" color="red"   color2="blue" opacity=".25"&gt; &lt;/v:fill&gt;</pre> <div data-bbox="451 783 779 1003">  <p>opacity="1"</p> <p>opacity=".25"</p> </div> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <p>points (Points for Compound Line)</p>                                                                     | <p>Specifies a set of straight line segments that are composed of a series of pairs of points. Default is "0,0 10,10".</p> <p>Points are specified in the coordinate system of the parent element. If the parent is not a VML element, the default unit is a pixel. Allowed units are in, cm, mm, pt, pc and px. While commas are not required, they should be used for easier readability.</p> <p>See above for an example.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                             |
| <p>preferrelative (Relative Resize Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether the original size of an object is saved after reformatting. Default is false. If true, the original size of the object is stored and all resizing is based on a percentage of that original size. Otherwise, each resizing resets the scale to 100%.</p> <p>[<i>Example:</i></p> <pre data-bbox="451 1816 1063 1879">&lt;v:shape ... o:preferrelative="true" ... &gt; &lt;/v:shape&gt;</pre>                                                                                                                                                                                                                                                                                                                             |

| Attributes                                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                             | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                    |
| <p>print (Print Toggle)</p>                                                                 | <p>Specifies whether the shape is printed. Default is true.</p> <p>[Example:</p> <pre>&lt;v:shape ... print="false" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                |
| <p>regroupid (Regroup ID)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies a previous group for a shape. An ID number is used to identify groups of shapes that are no longer grouped. This allows shapes to be regrouped programmatically.</p> <p>[Example: The shape was part of a group identified by the ID 040754:</p> <pre>&lt;v:shape ... o:regroupid="040754" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema integer datatype.</p> |
| <p>spid (Optional String)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies an optional string that an application can use to identify the particular shape. Default is no value.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                              |
| <p>spt (Optional Number)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>  | <p>Specifies an optional number that an application can use to associate the particular shape with a defined shape type. Default is 0.</p> <p>The possible values for this attribute are defined by the W3C XML Schema float datatype.</p>                                                                                                                                                                                                                           |
| <p>strokecolor (Shape Stroke Color)</p>                                                     | <p>Specifies the primary color of the brush to use to stroke the path of the shape. Default is black. The color attribute of the stroke element (§19.1.2.21) overrides this. Colors are typically specified as either a named color, such as red, or six hexadecimal digits</p>                                                                                                                                                                                      |

| Attributes                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    | <p>representing the red, green and blue values of the color, such as #00FF30. Full details are specified in the simple type description.</p> <p>[Example:</p> <pre>&lt;v:shape ... strokecolor="red" ...&gt; &lt;/v:shape&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p>                                                                                                                    |
| stroked (Shape Stroke Toggle)      | <p>Specifies whether the path defining the shape is stroked with a solid line. The stroke element (§19.1.2.21) defines other strokes. The on attribute of the stroke element overrides this attribute. Default is true.</p> <p>[Example:</p> <pre>&lt;v:shape ... fillcolor="red"   stroked="false" strokecolor="blue"...&gt; &lt;/v:shape&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| strokeweight (Shape Stroke Weight) | <p>Specifies the width of the brush to use to stroke the path. Default is 1 point. If a number is given without units, the emu is used. The weight attribute of the stroke element (§19.1.2.21) overrides this attribute.</p> <p>[Example:</p> <pre>&lt;v:shape ... strokeweight="3pt" ... &gt; &lt;/v:shape&gt;</pre>                                                                                                                                                           |

| Attributes                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                         | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                    |
| <p>style (Shape Styling Properties)</p> | <p>Specifies the CSS2 styling properties of the shape. The CSS2 (Cascading Style Sheets, Level 2) specification, a Recommendation of the World Wide Web Consortium, is available here: <a href="http://www.w3.org/TR/REC-CSS2">http://www.w3.org/TR/REC-CSS2</a>.</p> <p>This attribute uses a semi-colon delimited list of “name:value” pairs, the syntax defined by section 4.1.8 of the CSS2 specification for grouped declarations (without the surrounding braces). The following tables define the allowed properties and the VML treatment of each.</p> <p>[Example:<br/> <code>&lt;v:shape ... style='position:absolute;width:100pt;height:50pt' ...</code><br/> <code>&gt;</code><br/> <code>&lt;/v:shape&gt;</code><br/> <i>end example]</i></p> <table border="1"> <thead> <tr> <th data-bbox="415 966 664 1012">Property</th><th data-bbox="664 966 1479 1012">Description</th></tr> </thead> <tbody> <tr> <td data-bbox="415 1012 664 1283">flip</td><td data-bbox="664 1012 1479 1283"> <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul> </td></tr> <tr> <td data-bbox="415 1283 664 1692">height</td><td data-bbox="664 1283 1479 1692"> <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> </td></tr> <tr> <td data-bbox="415 1692 664 1877">left</td><td data-bbox="664 1692 1479 1877"> <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> </td></tr> </tbody> </table> | Property | Description | flip | <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul> | height | <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> | left | <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> |
| Property                                | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                    |
| flip                                    | <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                    |
| height                                  | <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                    |
| left                                    | <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                    |

| Attributes | Description   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |               | <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>                                                                                                                                                                                                                                                            |
|            | margin-bottom | <p>Specifies the position of the bottom of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> |
|            | margin-left   | <p>Specifies the position of the left of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>    |
|            | margin-right  | <p>Specifies the position of the right of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>  |

| Attributes | Description                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | margin-top                       | <p>Specifies the position of the top of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> |
|            | mso-position-horizontal          | <p>Specifies the horizontal positioning data for objects in WordprocessingML documents. Default is absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• absolute</li> <li>• left</li> <li>• center</li> <li>• right</li> <li>• inside</li> <li>• outside</li> </ul>                                                                                                                                                                                                                                                                                                                                                                           |
|            | mso-position-horizontal-relative | <p>Specifies relative horizontal position data for objects in WordprocessingML documents. This modifies the mso-position-horizontal property. Default is text. Allowed values are:</p> <ul style="list-style-type: none"> <li>• margin</li> <li>• page</li> <li>• text</li> <li>• char</li> </ul>                                                                                                                                                                                                                                                                                                                                                                   |
|            | mso-position-vertical            | <p>Specifies the vertical positioning data for objects in WordprocessingML documents. Default is absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• absolute</li> <li>• top</li> <li>• center</li> <li>• bottom</li> <li>• inside</li> <li>• outside</li> </ul>                                                                                                                                                                                                                                                                                                                                                                             |

| Attributes | Description                    |                                                                                                                                                                                                                                                                                               |
|------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | mso-position-vertical-relative | <p>Specifies relative vertical position data for objects in WordprocessingML documents. This modifies the mso-position-vertical property. Default is text. Allowed values are:</p> <ul style="list-style-type: none"> <li>• margin</li> <li>• page</li> <li>• text</li> <li>• line</li> </ul> |
|            | mso-wrap-distance-bottom       | <p>Specifies the distance from the bottom of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>           |
|            | mso-wrap-distance-left         | <p>Specifies the distance from the left side of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>        |
|            | mso-wrap-distance-right        | <p>Specifies the distance from the right side of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>       |
|            | mso-wrap-distance-top          | <p>Specifies the distance from the top of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>              |
|            | mso-wrap-edited                | <p>Specifies whether the wrap coordinates were customized by the user. If the wrap coordinates are generated by an editor, this property is true; otherwise they were customized by a user. Default is false.</p>                                                                             |
|            | mso-wrap-style                 | <p>Specifies the wrapping mode for text in shapes in WordprocessingML documents. Default is square. Allowed values are:</p> <ul style="list-style-type: none"> <li>• square - Wraps text inside the shape in a square.</li> <li>• none - Text does not wrap.</li> </ul>                       |
|            | position                       | <p>Specifies the kind of positioning used to place an element. Default is static. When the element is contained inside a group, this property shall be absolute. Allowed values are:</p>                                                                                                      |

| Attributes | Description |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |             | <ul style="list-style-type: none"> <li>• <b>static</b> - The element is positioned according to the normal flow of the page. The top and left properties are ignored. If the object is anchored inline, this value is used.</li> <li>• <b>absolute</b> - The element is positioned relative to the parent, using the top and left properties.</li> <li>• <b>relative</b> - The element is positioned according to the normal flow of the page, but the top and left properties are used. The overlap of overlapping elements is governed by the z-index property.</li> </ul>                                                                                                                                                                                                       |
|            | rotation    | Specifies the angle that a shape is rotated, in degrees. Default is 0. Positive angles are clockwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|            | top         | <p>Specifies the position of the top of the containing block of the shape relative to the element above it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• <b>auto</b> - Default position of an element in the flow of the page.</li> <li>• <b>&lt;units&gt;</b> - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• <b>&lt;percentage&gt;</b> - Value expressed as a percentage of the parent object's height.</li> </ul> |
|            | visibility  | <p>Specifies whether a shape is displayed. Only inherit and hidden are used; any other values are mapped to inherit. Default is inherit. Allowed values are:</p> <ul style="list-style-type: none"> <li>• <b>hidden</b> - The shape is not visible, but is still part of the flow of the objects in the browser. Mouse events are not processed.</li> <li>• <b>inherit</b> - The visibility state is inherited from the parent of the shape.</li> </ul>                                                                                                                                                                                                                                                                                                                            |
|            | width       | <p>Specifies the width of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• <b>auto</b> - Default position of an element in the flow of the page.</li> <li>• <b>&lt;units&gt;</b> - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> </ul>                                                                                                                                                                                                                                          |



| Attributes                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                         | <ul style="list-style-type: none"> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>                                                                                                                                                                                                                                                                                                                                    |
|                                                                             | z-index                                                                                                                                                                                                                                                                                                                                                                                                                 | <p>Specifies the display order of overlapping shapes. Default is 0. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Uses the order that the shapes appear in the page, bottom to top.</li> <li>• &lt;order&gt;- A number that represents the stacking precedence. Shapes with higher numbers are placed on top of those with lower numbers. Negative numbers are allowed.</li> </ul> |
| The following properties are only used by the textbox element (§19.1.2.22): |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Property                                                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| direction                                                                   | <p>Specifies the direction of the text in the textbox. Default is ltr. This property is superceded by the mso-direction-alt property if that is specified. Allowed values are:</p> <ul style="list-style-type: none"> <li>• ltr - Text is displayed left-to-right.</li> <li>• rtl - Text is displayed right-to-left.</li> </ul>                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| layout-flow                                                                 | <p>Determines the flow of the text layout in a textbox. Default is horizontal. Allowed values are:</p> <ul style="list-style-type: none"> <li>• horizontal - Text is displayed horizontally.</li> <li>• vertical - Text is displayed vertically.</li> <li>• vertical-ideographic - Ideographic text is displayed vertically.</li> <li>• horizontal-ideographic - Ideographic text is displayed horizontally.</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| mso-direction-alt                                                           | <p>Specifies an alternate direction for text in textboxes. Overrides the direction property. The only allowed value is context.</p>                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| mso-fit-shape-to-text                                                       | <p>Specifies whether the shape stretches to fit the text in the textbox. Default is false.</p>                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| mso-fit-text-to-shape                                                       | <p>Specifies whether the text stretches to fit the textbox. Default is false.</p>                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| mso-layout-                                                                 | <p>Specifies the alternate layout flow for text in textboxes. This</p>                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| Attributes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Description                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | flow-alt                                                                                                                                                                                                                                            | property is used instead of layout-flow when the layout flow is from bottom to top for non-ideographic languages. Its only value is bottom-to-top.                                                                                                                                                                                                                                                                                                                                                                                                   |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | mso-next-textbox                                                                                                                                                                                                                                    | Specifies the ID of the next textbox in a series. Used to keep track of a set of linked textboxes. Default is no value.                                                                                                                                                                                                                                                                                                                                                                                                                              |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | mso-rotate                                                                                                                                                                                                                                          | Specifies a specific rotation value for text in a textbox. Default is 0. Allowed values are: <ul style="list-style-type: none"><li>0</li><li>90</li><li>180</li><li>-90</li></ul>                                                                                                                                                                                                                                                                                                                                                                    |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | mso-text-scale                                                                                                                                                                                                                                      | Specifies the scaling factor for fitting text to shapes. Default is 0. This property is only used if mso-fit-text-to-shape is true.                                                                                                                                                                                                                                                                                                                                                                                                                  |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | v-text-anchor                                                                                                                                                                                                                                       | Specifies the vertical anchoring of text in a textbox. Default is top. The alignment of a text anchor only becomes evident if mso-fit-text-to-shape is false. This property is different from the vertical-align CSS property, which is used for ideographic languages. Allowed values are: <ul style="list-style-type: none"><li>top</li><li>middle</li><li>bottom</li><li>top-center</li><li>middle-center</li><li>bottom-center</li><li>top-baseline</li><li>bottom-baseline</li><li>top-center-baseline</li><li>bottom-center-baseline</li></ul> |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |
| The following properties are only used by the textpath element (§19.1.2.23):                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |
| <table><tr><th>Property</th><th>Description</th></tr><tr><td>font</td><td>Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family.</td></tr><tr><td>font-family</td><td>Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property.</td></tr></table> |                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Property | Description | font | Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family. | font-family | Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property. |
| Property                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Description                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |
| font                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |
| font-family                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property.                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |

| Attributes | Description                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|--------|----------------------|---------|-----|-----|-----|-----|------|------------------|--------|-----|-----|-----|-----|-----|
|            | font-size                                                         | Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|            | font-style                                                        | Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are: <ul style="list-style-type: none"><li>normal</li><li>italic</li><li>oblique - Treated the same as italic.</li></ul>                                                                                                                                                                                                                                                                                                                                                           |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|            | font-variant                                                      | Specifies the variant style of a font. Default is normal. The values are the same as those of the CSS font-variant property. Allowed values are: <ul style="list-style-type: none"><li>normal</li><li>small-caps</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|            | font-weight                                                       | Specifies the thickness of the letters of the font. Default is normal. The values are the same as those of the CSS font-weight property. Allowed values are: <table><thead><tr><th>Value</th><th>Description</th></tr></thead><tbody><tr><td>normal</td><td rowspan="6">Treated as non-bold.</td></tr><tr><td>lighter</td></tr><tr><td>100</td></tr><tr><td>200</td></tr><tr><td>300</td></tr><tr><td>400</td></tr><tr><td>bold</td><td rowspan="7">Treated as bold.</td></tr><tr><td>bolder</td></tr><tr><td>500</td></tr><tr><td>600</td></tr><tr><td>700</td></tr><tr><td>800</td></tr><tr><td>900</td></tr></tbody></table> | Value | Description | normal | Treated as non-bold. | lighter | 100 | 200 | 300 | 400 | bold | Treated as bold. | bolder | 500 | 600 | 700 | 800 | 900 |
|            | Value                                                             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| normal     | Treated as non-bold.                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| lighter    |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 100        |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 200        |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 300        |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 400        |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| bold       | Treated as bold.                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| bolder     |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 500        |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 600        |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 700        |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 800        |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 900        |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| mso-text-  | Specifies whether a shadow is applied to the text on a text path. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |

| Attributes | Description           |                                                                                                                                                                                                                                                                                                                                                                                        |
|------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | shadow                | Default is false.                                                                                                                                                                                                                                                                                                                                                                      |
|            | text-decoration       | <p>Specifies the style of text decoration. Default is none. The values are the same as those of the CSS text-decoration property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• none</li> <li>• underline</li> <li>• overline</li> <li>• line-through</li> <li>• blink</li> </ul>                                                                                   |
|            | v-rotate-letters      | Specifies whether the letters of the text are rotated counterclockwise by 90 degrees. Default is false.                                                                                                                                                                                                                                                                                |
|            | v-same-letter-heights | Specifies whether all letters are the same height regardless of initial case. If true, the lowercase letters are stretched to the height of the uppercase letters. Default is false.                                                                                                                                                                                                   |
|            | v-text-align          | <p>Specifies the alignment of text. Default is left. Allowed values are:</p> <ul style="list-style-type: none"> <li>• left</li> <li>• right</li> <li>• center</li> <li>• justify</li> <li>• letter-justify - Distributes the extra space between the letters.</li> <li>• stretch-justify - Stretches the letters to fill in the space.</li> </ul>                                      |
|            | v-text-kern           | Specifies whether kerning is turned on. Default is false.                                                                                                                                                                                                                                                                                                                              |
|            | v-text-reverse        | Specifies whether the layout order of rows is reversed. Default is false. This is used for vertical text layout.                                                                                                                                                                                                                                                                       |
|            | v-text-spacing-mode   | <p>Specifies the mode for letter spacing. Default is tightening. This property determines whether space is removed between each letter (tightening) or added between each letter (tracking). The amount of letter spacing change is defined by the v-text-spacing property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• tightening</li> <li>• tracking</li> </ul> |
|            | v-text-spacing        | Specifies the amount of spacing for text in 100ths of single line spacing. Default is 100.                                                                                                                                                                                                                                                                                             |

| Attributes                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|--------------|----------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------|
|                                   | <p>The line (§19.1.2.12), polyline (§19.1.2.15) and curve (§19.1.2.3) elements ignore the following properties:</p> <ul style="list-style-type: none"> <li>• top</li> <li>• left</li> <li>• width</li> <li>• height</li> </ul> <p>The following properties are not inherited by an element that references a shapetype element (§19.1.2.20) via the id attribute:</p> <ul style="list-style-type: none"> <li>• flip</li> <li>• height</li> <li>• left</li> <li>• margin-left</li> <li>• margin-top</li> <li>• position</li> <li>• rotation</li> <li>• top</li> <li>• visibility</li> <li>• width</li> <li>• z-index</li> </ul> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |
| target (Hyperlink Display Target) | <p>Specifies a frame or window that a URL is displayed in. Default is no value. Allowed values are:</p> <table border="1" data-bbox="415 1285 1469 1839"> <thead> <tr> <th data-bbox="415 1285 626 1331">Value</th><th data-bbox="626 1285 1469 1331">Description</th></tr> </thead> <tbody> <tr> <td data-bbox="415 1331 626 1419">&lt;targetname&gt;</td><td data-bbox="626 1331 1469 1419">String containing the name of the frame or window in which to load the document.</td></tr> <tr> <td data-bbox="415 1419 626 1507">_blank</td><td data-bbox="626 1419 1469 1507">Specifies that the linked document is loaded into a new blank window. This window is not named.</td></tr> <tr> <td data-bbox="415 1507 626 1596">_media</td><td data-bbox="626 1507 1469 1596">Specifies that the linked document is loaded into the browser's multimedia pane.</td></tr> <tr> <td data-bbox="415 1596 626 1684">_parent</td><td data-bbox="626 1596 1469 1684">Specifies that the linked document is loaded into the immediate parent of the document containing the link.</td></tr> <tr> <td data-bbox="415 1684 626 1772">_search</td><td data-bbox="626 1684 1469 1772">Specifies that the linked document is loaded into the browser's search pane.</td></tr> <tr> <td data-bbox="415 1772 626 1839">_self</td><td data-bbox="626 1772 1469 1839">Specifies that the linked document is loaded into the window in which the link was clicked (the active window).</td></tr> </tbody> </table> | Value | Description | <targetname> | String containing the name of the frame or window in which to load the document. | _blank | Specifies that the linked document is loaded into a new blank window. This window is not named. | _media | Specifies that the linked document is loaded into the browser's multimedia pane. | _parent | Specifies that the linked document is loaded into the immediate parent of the document containing the link. | _search | Specifies that the linked document is loaded into the browser's search pane. | _self | Specifies that the linked document is loaded into the window in which the link was clicked (the active window). |
| Value                             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |
| <targetname>                      | String containing the name of the frame or window in which to load the document.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |
| _blank                            | Specifies that the linked document is loaded into a new blank window. This window is not named.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |
| _media                            | Specifies that the linked document is loaded into the browser's multimedia pane.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |
| _parent                           | Specifies that the linked document is loaded into the immediate parent of the document containing the link.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |
| _search                           | Specifies that the linked document is loaded into the browser's search pane.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |
| _self                             | Specifies that the linked document is loaded into the window in which the link was clicked (the active window).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |

| Attributes                                                                                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                                                                       |
|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------|
|                                                                                                 | <table border="1" data-bbox="415 245 1481 331"> <tr> <td data-bbox="415 245 626 331"><code>_top</code></td><td data-bbox="626 245 1481 331">Specifies that the linked document is loaded into the topmost window.</td></tr> </table> <p data-bbox="415 369 535 401">[Example:</p> <pre data-bbox="451 438 1062 569"> &lt;v:shape ...   href="http://www.openxmlformats.org"   target="_self" ... &gt; &lt;/v:shape&gt; </pre> <p data-bbox="415 611 578 642">end example]</p> <p data-bbox="415 680 1377 751">The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> | <code>_top</code> | Specifies that the linked document is loaded into the topmost window. |
| <code>_top</code>                                                                               | Specifies that the linked document is loaded into the topmost window.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |                                                                       |
| title (Shape Title)                                                                             | <p data-bbox="415 764 1481 835">Specifies the text displayed when the mouse pointer moves over the shape. Default is no value.</p> <p data-bbox="415 873 535 905">[Example:</p> <pre data-bbox="451 942 932 1010"> &lt;v:shape ... title="tooltip" ... &gt; &lt;/v:shape&gt; </pre> <p data-bbox="415 1052 578 1083">end example]</p> <p data-bbox="415 1121 1377 1192">The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                       |                   |                                                                       |
| userdrawn (Exists In Master Slide)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p data-bbox="415 1205 1481 1276">Specifies whether the user has added the shape to a master slide. Default is false. Used by PresentationML.</p> <p data-bbox="415 1314 535 1346">[Example:</p> <pre data-bbox="451 1383 984 1451"> &lt;v:shape ... o:userdrawn="true" ... &gt; &lt;/v:shape&gt; </pre> <p data-bbox="415 1493 578 1524">end example]</p> <p data-bbox="415 1562 1390 1633">The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                            |                   |                                                                       |
| userhidden (Hide Script Anchors)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office   | <p data-bbox="415 1646 1481 1747">Specifies whether a script anchor is hidden. Default is false. If true, script anchors stay hidden even if the shape is otherwise visible. A script anchor is the visual representation of a script that when displayed in an application.</p> <p data-bbox="415 1785 535 1816">[Example:</p> <pre data-bbox="451 1854 1000 1885"> &lt;v:shape ... o:userhidden="true" ... &gt; </pre>                                                                                                                                                                                    |                   |                                                                       |

| Attributes                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                     | <p><code>&lt;/v:shape&gt;</code></p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                      |
| wrapcoords (Shape Bounding Polygon) | <p>Specifies the bounding polygon that surrounds a shape. This is specified using a comma-delimited list of x and y coordinates: "x1,y1,x2,y2,x3,y3,..." This is used when text is tightly wrapped around a shape. Default is no value until the mso-wrap-mode style attribute is set to tight or through.</p> <p>[Example:</p> <pre> &lt;v:shape ...   wrapcoords="0,0 0,200, 200,200, 200,0" ... &gt; &lt;/v:shape&gt; </pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |

[Note: The W3C XML Schema definition of this element's content model ([CT\\_PolyLine](#)) is located in §A.6.1. *end note]*

### 19.1.2.16 `rect` (Rectangle)

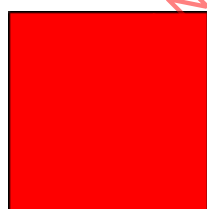
This element is used to draw a simple rectangle. The CSS2 style content width and height define the width and height of the rectangle.

[Example:

```

<v:rect fillcolor="red"
  style="position:relative;top:0;left:0;width:100;height:100">
</v:rect>

```



*end example]*

| Parent Elements                                                                                                |
|----------------------------------------------------------------------------------------------------------------|
| background (Part 1, §17.2.1); group (§19.1.2.7); object (Part 1, §17.3.3.19); pict (§14.2.2.2); pict (§14.5.1) |

| Child Elements                         | Subclause  |
|----------------------------------------|------------|
| anchorlock (Anchor Location Is Locked) | §19.3.2.1  |
| borderbottom (Bottom Border)           | §19.3.2.2  |
| borderleft (Left Border)               | §19.3.2.3  |
| borderright (Right Border)             | §19.3.2.4  |
| bordertop (Top Border)                 | §19.3.2.5  |
| callout (Callout)                      | §19.2.2.2  |
| ClientData (Attached Object Data)      | §19.4.2.12 |
| clippath (Shape Clipping Path)         | §19.2.2.3  |
| extrusion (3D Extrusion)               | §19.2.2.11 |
| fill (Shape Fill Properties)           | §19.1.2.5  |
| formulas (Set of Formulas)             | §19.1.2.6  |
| handles (Set of Handles)               | §19.1.2.9  |
| imagedata (Image Data)                 | §19.1.2.11 |
| lock (Shape Protections)               | §19.2.2.18 |
| path (Shape Path)                      | §19.1.2.14 |
| shadow (Shadow Effect)                 | §19.1.2.18 |
| signatureline (Digital Signature Line) | §19.2.2.30 |
| skew (Skew Transform)                  | §19.2.2.31 |
| stroke (Line Stroke Settings)          | §19.1.2.21 |
| textbox (Text Box)                     | §19.1.2.22 |
| textdata (VML Diagram Text)            | §19.5.2.2  |
| textpath (Text Layout Path)            | §19.1.2.23 |
| wrap (Text Wrapping)                   | §19.3.2.6  |

| Attributes                                                                                     | Description                                                                                                                                                             |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| allowincell (Allow in Table Cell)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | Specifies whether a shape can be placed in a table. Default is false.<br><br>[Example:<br><br><pre>&lt;v:shape ... o:allowincell="true" ... &gt; &lt;/v:shape&gt;</pre> |



| Attributes                                                                                                       | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                  | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <p>allowoverlap<br/>(Allow Shape Overlap)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>      | <p>Specifies whether a shape can overlap another shape. Default is true. If false, the shape shifts left or right so as not to overlap another shape, similar to the behavior of the HTML float attribute.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:allowoverlap="false" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                   |
| <p>alt (Alternate Text)</p>                                                                                      | <p>Specifies alternative text describing the graphical object. This text should provide a brief description of the shape for use by accessibility tools. Default is no value.</p> <p>[Example: The alt text describes the basic shape:</p> <pre>&lt;v:shape ... fillcolor="red" alt="Red rectangle"&gt; &lt;/v:shape&gt;</pre> <p>The alt text describes the contents of a shape displaying an image:</p> <pre>&lt;v:shape ... alt="Picture of a sunset"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <p>borderbottomcolor<br/>(Bottom Border Color)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies the bottom border color of an inline shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:borderbottomcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string</p>                                                                                                                                                                                                                                                                                                             |

| Attributes                                                                                                   | Description                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                              | datatype.                                                                                                                                                                                                                                                                                        |
| <b>borderleftcolor</b><br>(Border Left Color)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office   | Specifies the left border color of an inline shape. Default is no value.<br><br>[Example:<br><pre>&lt;v:shape ... o:borderleftcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <i>end example]</i><br><br>The possible values for this attribute are defined by the W3C XML Schema string datatype.   |
| <b>borderrightcolor</b><br>(Border Right Color)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | Specifies the right border color of an inline shape. Default is no value.<br><br>[Example:<br><pre>&lt;v:shape ... o:borderrightcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <i>end example]</i><br><br>The possible values for this attribute are defined by the W3C XML Schema string datatype. |
| <b>bordertopcolor</b><br>(Border Top Color)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office     | Specifies the top border color of an inline shape. Default is no value.<br><br>[Example:<br><pre>&lt;v:shape ... o:bordertopcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <i>end example]</i><br><br>The possible values for this attribute are defined by the W3C XML Schema string datatype.     |
| <b>bullet</b> (Graphical Bullet)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office                | Specifies whether the shape is a graphical bullet. Default is false.<br><br>[Example:<br><pre>&lt;v:shape ... o:bullet="true" ... &gt; &lt;/v:shape&gt;</pre> <i>end example]</i><br><br>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).         |

| Attributes                                                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>button (Button Behavior Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>        | <p>Specifies whether a shape exhibits button press behavior on click. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:button="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>bwmode (Black-and-White Mode)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>          | <p>Specifies how a shape renders for black-and-white output devices. When a shape is printed on a black-and-white printer or displayed in a black-and-white view in an application, several options are possible. Default is auto, which uses o:bwnormal for normal black-and-white rendering and o:bwpure for pure black-and-white rendering.</p> <p>bwnormal and bwpure are subordinate to bwmode. If bwmode is "auto" then the value for bwnormal or bwpure is used depending on what the output format is. An application can define for itself what, if any, difference there is between normal B&amp;W and pure B&amp;W. [Example: Normal B&amp;W might allow greyscale and pure B&amp;W might not. end example]</p> <p>[Example: This shape renders in grayscale in a black-and-white environment:</p> <pre>&lt;v:shape ... o:bwmode="grayscale" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3).</p> |
| <p>bwnormal (Normal Black-and-White Mode)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies the black-and-white mode for normal black-and-white output devices. Default is auto.</p> <p>[Example: This shape renders in a pale grayscale in a normal black-and-white environment:</p> <pre>&lt;v:shape ... o:bwmode="auto" o:bwnormal="lightgrayscale" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <p>bwpure (Pure Black-and-White)</p>                                                                        | <p>Specifies the black-and-white mode for pure black-and-white output devices. Default is auto.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| Attributes                                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mode)<br><br>Namespace:<br>urn:schemas-<br>microsoft-<br>com:office:office | <p>[Example: This shape renders in high contrast when in a pure black-and-white environment:</p> <pre>&lt;v:shape ... o:bwmode="auto" o:bwpure="highcontrast" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3).</p>                                                                                                                                                                      |
| chromakey (Image<br>Transparency Color)                                    | <p>Specifies a color value that is transparent and show anything behind the shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:image ... chromakey="white" ...&gt; &lt;/v:image&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p>                                                                                                                                                              |
| class (CSS<br>Reference)                                                   | <p>Specifies a reference to the definition of a CSS style. Default is no value.</p> <p>[Example: The snippets below are equivalent:</p> <pre>... .narrowstyle {width:50;height:100} ... &lt;v:shape ... class="narrowstyle" style="top:1;left:1"&gt; &lt;/v:shape&gt;</pre> <pre>&lt;v:shape ... style="top:1;left:1; width:50;height:100"&gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| clip (Clipping<br>Toggle)                                                  | <p>Specifies that the clipping region is active. This is used in conjunction with the clippath (§19.2.2.3) element to create a clipping region.</p>                                                                                                                                                                                                                                                                                                                                        |

| Attributes                                                                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>                                              | <p>[Example:</p> <pre>&lt;v:shape ... o:clip="true"&gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <p>cliptowrap (Clip to Wrapping Polygon)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies that the clipping region for the shape aligns with the wrapping polygon that tightly surrounds the entire shape (essentially, that the shape shall not be drawn beyond its wrapping polygon's extents – if it does, the shape shall be clipped). Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:cliptowrap="true"&gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                    |
| <p>connectortype (Shape Connector Type)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>  | <p>Specifies the kind of connector used for joining shapes. Default is straight.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:connectortype="elbow" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_ConnectorType simple type (§19.2.3.7).</p>                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p>coordorigin (Coordinate Space Origin)</p>                                                               | <p>Specifies the coordinate of the top left corner of the shape's coordinate space. This determines the position of the (0,0) coordinate space origin within the shape's bounding box. Default is "0,0", which places the (0,0) origin at the top left corner of the bounding box.</p> <p>This affects shape properties that specify coordinate positions, such as the path attribute. Thus a path can be defined against a generic (0,0) origin and the coordorigin value translates the entire path within the shape's bounding space.</p> <p>[Example: The horizontal and vertical coordinate space ranges from -100 to +100 because the coordinate space (coordsize) is 200 by 200 and the top left coordinate is (-100,-100).</p> |

| Attributes                                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                         | <p>The (0,0) origin lies at the center of the shape's bounding box, as evidenced by the position of the shape's path within the coordinate space:</p> <pre>&lt;v:shape ... coordsize="200,200"   coordorigin="-100,-100"   path="m 0,0 l 0,50, 50,50, 50,0 x e"&gt; &lt;/v:shape&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <p>coordsize<br/>(Coordinate Space Size)</p>                            | <p>Specifies the size of the shape's coordinate space in coordinate units. Default is "1000,1000".</p> <p>The physical size of a coordinate unit length is determined by both the size of the coordinate space (coordsize) and the size of the shape (style width and height). The coordsize attribute defines the number of horizontal and vertical subdivisions into which the shape's bounding box is divided. The combination of coordsize and style width/height effective scales the shape anisotropically.</p> <p>[Example: The path is 50 units wide and tall, which is 25% of the size of the coordinate space:</p> <pre>&lt;v:shape ... coordsize="200,200"   coordorigin="-100,-100"   path="m 0,0 l 0,50, 50,50, 50,0 x e"&gt; &lt;/v:shape&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <p>dgmlayout<br/>(Diagram Node Layout Identifier)</p> <p>Namespace:</p> | <p>Specifies the kind of automatic layout to apply to the diagram node. This is only meaningful if the shape is a node in an organization chart, which is denoted by the orgchart value of the editas attribute of the group element.</p> <p>[Example:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

| Attributes                                                                                                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| urn:schemas-microsoft-com:office:office                                                                              | <pre>&lt;v:shape ... dgmlayout="1"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_DiagramLayout simple type (§19.2.3.10).</p>                                                                                                                                                                                                                                                                                            |
| dgmlayoutmru<br>(Diagram Node Recent Layout Identifier)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies the kind of automatic layout most recently used on the child elements of the diagram node. This is only meaningful if the shape is a node in an organization chart, which is denoted by the orgchart value of the editas attribute of the group element.</p> <p>[Example:</p> <pre>&lt;v:shape ... dgmlayout="1"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_DiagramLayout simple type (§19.2.3.10).</p> |
| dgmnodekind<br>(Diagram Node Identifier)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office                | <p>Specifies an optional, application-defined parameter that is intended to be used by the application to tag different types of nodes in a diagram.</p> <p>[Example:</p> <pre>&lt;v:shape ... dgmnodekind="1"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema integer datatype.</p>                                                                                                                          |
| doubleclicknotify<br>(Double-click Notification Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies that an event message is sent when a shape is double-clicked. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:doubleclicknotify="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                             |
| fillcolor (Fill Color)                                                                                               | <p>Specifies the color to use for the fill. Default is white. If the fill element (§19.1.2.5) is</p>                                                                                                                                                                                                                                                                                                                                                                                            |

| Attributes                                                                                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                       | <p>present, its color attribute takes precedence. Colors are typically specified as either a named color, such as red, or six hexadecimal digits representing the red, green and blue values of the color, such as #00FF30. Full details are specified in the simple type description.</p> <p>[Example: This shape is red if its fill is visible:</p> <pre>&lt;v:shape ... fillcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p>This is equivalent to:</p> <pre>&lt;v:shape ... fillcolor="#ff0000" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p> |
| <p>filled (Shape Fill Toggle)</p>                                                                     | <p>Specifies whether the closed path is filled. Default is true. This attribute is overridden by the fill on attribute.</p> <p>[Example:</p> <pre>&lt;v:shape ... filled="f"   fillcolor="red" ...&gt; &lt;/v:shape&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                 |
| <p>forcedash (Force Dashed Outline)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether a dashed outline is used to draw a shape when a shape has no line or fill. Default is false.</p> <p>Used by PresentationML placeholders to draw a dashed outline when there is no line and no fill for a shape.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:forcedash="true" ... &gt; &lt;/v:shape&gt;</pre>                                                                                                                                                                                                                                                                                                                            |



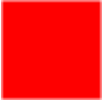
| Attributes                                                                                               | Description                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                          | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                  |
| <p>hr (Horizontal Rule Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>         | <p>Specifies that a shape is a horizontal rule. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hr="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                          |
| <p>hralign (Horizontal Rule Alignment)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies the alignment of a horizontal rule. Default is left.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hralign="center" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_HrAlign simple type (§19.2.3.16).</p>                    |
| <p>href (Hyperlink Target)</p>                                                                           | <p>Specifies a hyperlink URL target for the shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... href="http://www.openxmlformats.org" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <p>hrnoshade (Horizontal Rule 3D Shading Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-</p>        | <p>Specifies that the horizontal rule does not have 3-D shading. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hrnoshade="true" ... &gt; &lt;/v:shape&gt;</pre>                                                                                                                                    |

| Attributes                                                                                                           | Description                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| com:office:office                                                                                                    | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                 |
| <p>hrpct (Horizontal Rule Length Percentage)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>       | <p>Specifies the length of a horizontal rule as a percentage of page width. Default is 0.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hrpct="85" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema float datatype.</p>                                       |
| <p>hrstd (Horizontal Rule Standard Display Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether a shape is displayed as a standard horizontal rule. Only applies if hr is true. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hrstd="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| id (Unique Identifier)                                                                                               | <p>Specifies a unique identifier that can be used to reference a VML object.</p> <p>Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... id="myShape" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                       |
| insetmode (Text Inset Mode)                                                                                          | <p>Specifies whether the application calculates the internal text margin instead of using the inset attribute. Default is custom. This attribute is only meaningful for text boxes.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:insetmode="auto" ... &gt;</pre>                                                                                   |

| Attributes                                                                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| com:office:office                                                                                  | <p>&lt;/v:shape&gt;</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_InsetMode simple type (§19.2.3.17).</p>                                                                                                                                                                                                                                                                           |
| insetpen (Inset Border From Path)                                                                  | <p>Specifies that the border shall be displayed inside of the path defining the shape, rather than along the path (the default border placement), or outside of the path as might be done with an image.</p> <p>[Example:</p> <pre>&lt;v:shape ... insetpen="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| ole (Embedded Object Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office          | <p>Specifies whether the shape is an embedded object. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:ole="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalseBlank simple type (§20.1.2.6).</p>                                                                                                                                |
| oleicon (Embedded Object Icon Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies whether an embedded object is displayed as an icon. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:oleicon="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                      |
| oned (Shape Handle Toggle)<br><br>Namespace:                                                       | <p>Specifies whether the extra handles of a shape are hidden. If true, hides all shape handles except the top left and bottom right; that is, the same handles that are used for a straight line segment. Default is false.</p>                                                                                                                                                                                                      |

| Attributes                                                                                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| urn:schemas-microsoft-com:office:office                                                              | <p>[Example:</p> <pre>&lt;v:shape ... o:oned="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| opacity (Fill Color Opacity)                                                                         | <p>Specifies the opacity of the primary fill color. Default is 1.0. This numeric value can also be specified in 1/65536-ths if a trailing "f" is supplied. [Example: A value of "52429f" represents 52429/65536 or 0.8. end example]</p> <p>[Example: The red color is 25% opaque:</p> <pre>&lt;v:fill type="gradient" color="red" color2="blue" opacity=".25"&gt; &lt;/v:fill&gt;</pre> <div data-bbox="451 926 779 1144">  <div data-bbox="570 1003 747 1035">opacity="1"</div>  <div data-bbox="570 1113 779 1144">opacity=".25"</div> </div> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| preferrelative (Relative Resize Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies whether the original size of an object is saved after reformatting. Default is false. If true, the original size of the object is stored and all resizing is based on a percentage of that original size. Otherwise, each resizing resets the scale to 100%.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:preferrelative="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                     |
| print (Print Toggle)                                                                                 | <p>Specifies whether the shape is printed. Default is true.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| Attributes                                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                             | <p>[Example:</p> <pre>&lt;v:shape ... print="false" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                               |
| <p>regroupid (Regroup ID)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies a previous group for a shape. An ID number is used to identify groups of shapes that are no longer grouped. This allows shapes to be regrouped programmatically.</p> <p>[Example: The shape was part of a group identified by the ID 040754:</p> <pre>&lt;v:shape ... o:regroupid="040754" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema integer datatype.</p>                                                |
| <p>spid (Optional String)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies an optional string that an application can use to identify the particular shape. Default is no value.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                      |
| <p>spt (Optional Number)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>  | <p>Specifies an optional number that an application can use to associate the particular shape with a defined shape type. Default is 0.</p> <p>The possible values for this attribute are defined by the W3C XML Schema float datatype.</p>                                                                                                                                                                                                                                                                   |
| <p>strokecolor (Shape Stroke Color)</p>                                                     | <p>Specifies the primary color of the brush to use to stroke the path of the shape. Default is black. The color attribute of the stroke element (§19.1.2.21) overrides this. Colors are typically specified as either a named color, such as red, or six hexadecimal digits representing the red, green and blue values of the color, such as #00FF30. Full details are specified in the simple type description.</p> <p>[Example:</p> <pre>&lt;v:shape ... strokecolor="red" ...&gt; &lt;/v:shape&gt;</pre> |

| Attributes                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    |  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p>                                                                                                                                                                                                                                                                                                                                                       |
| stroked (Shape Stroke Toggle)      | <p>Specifies whether the path defining the shape is stroked with a solid line. The stroke element (§19.1.2.21) defines other strokes. The on attribute of the stroke element overrides this attribute. Default is true.</p> <p>[Example:</p> <pre>&lt;v:shape ... fillcolor="red"   stroked="false" strokecolor="blue"...&gt; &lt;/v:shape&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| strokeweight (Shape Stroke Weight) | <p>Specifies the width of the brush to use to stroke the path. Default is 1 point. If a number is given without units, the emu is used. The weight attribute of the stroke element (§19.1.2.21) overrides this attribute.</p> <p>[Example:</p> <pre>&lt;v:shape ... strokeweight="3pt" ... &gt; &lt;/v:shape&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                    |
| style (Shape Styling               | Specifies the CSS2 styling properties of the shape. The CSS2 (Cascading Style Sheets, Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

| Attributes  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Properties) | <p>2) specification, a Recommendation of the World Wide Web Consortium, is available here: <a href="http://www.w3.org/TR/REC-CSS2">http://www.w3.org/TR/REC-CSS2</a>.</p> <p>This attribute uses a semi-colon delimited list of “name:value” pairs, the syntax defined by section 4.1.8 of the CSS2 specification for grouped declarations (without the surrounding braces). The following tables define the allowed properties and the VML treatment of each.</p> <p>[Example:<br/> <code>&lt;v:shape ... style='position:absolute;width:100pt;height:50pt' ...</code><br/> <code>&gt;</code><br/> <code>&lt;/v:shape&gt;</code><br/> end example]</p> <table border="1"> <thead> <tr> <th>Property</th><th>Description</th></tr> </thead> <tbody> <tr> <td>flip</td><td> <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul> </td></tr> <tr> <td>height</td><td> <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> </td></tr> <tr> <td>left</td><td> <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> </ul> </td></tr> </tbody> </table> | Property | Description | flip | <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul> | height | <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> | left | <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> </ul> |
| Property    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| flip        | <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| height      | <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| left        | <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

| Attributes | Description   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |               | <ul style="list-style-type: none"> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|            | margin-bottom | <p>Specifies the position of the bottom of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> |
|            | margin-left   | <p>Specifies the position of the left of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>    |
|            | margin-right  | <p>Specifies the position of the right of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>   |
|            | margin-top    | <p>Specifies the position of the top of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the</li> </ul>                                                                                                                                                                                                                                                                                                   |



| Attributes | Description                      |                                                                                                                                                                                                                                                                                                                                                |
|------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                                  | <p>page.</p> <ul style="list-style-type: none"> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> |
|            | mso-position-horizontal          | <p>Specifies the horizontal positioning data for objects in WordprocessingML documents. Default is absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• absolute</li> <li>• left</li> <li>• center</li> <li>• right</li> <li>• inside</li> <li>• outside</li> </ul>                                                      |
|            | mso-position-horizontal-relative | <p>Specifies relative horizontal position data for objects in WordprocessingML documents. This modifies the mso-position-horizontal property. Default is text. Allowed values are:</p> <ul style="list-style-type: none"> <li>• margin</li> <li>• page</li> <li>• text</li> <li>• char</li> </ul>                                              |
|            | mso-position-vertical            | <p>Specifies the vertical positioning data for objects in WordprocessingML documents. Default is absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• absolute</li> <li>• top</li> <li>• center</li> <li>• bottom</li> <li>• inside</li> <li>• outside</li> </ul>                                                        |
|            | mso-position-vertical-relative   | <p>Specifies relative vertical position data for objects in WordprocessingML documents. This modifies the mso-position-vertical property. Default is text. Allowed values are:</p> <ul style="list-style-type: none"> <li>• margin</li> </ul>                                                                                                  |

| Attributes | Description              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                          | <ul style="list-style-type: none"> <li>• page</li> <li>• text</li> <li>• line</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|            | mso-wrap-distance-bottom | Specifies the distance from the bottom of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.                                                                                                                                                                                                                                                        |
|            | mso-wrap-distance-left   | Specifies the distance from the left side of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.                                                                                                                                                                                                                                                     |
|            | mso-wrap-distance-right  | Specifies the distance from the right side of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.                                                                                                                                                                                                                                                    |
|            | mso-wrap-distance-top    | Specifies the distance from the top of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.                                                                                                                                                                                                                                                           |
|            | mso-wrap-edited          | Specifies whether the wrap coordinates were customized by the user. If the wrap coordinates are generated by an editor, this property is true; otherwise they were customized by a user. Default is false.                                                                                                                                                                                                                                                                                                                          |
|            | mso-wrap-style           | <p>Specifies the wrapping mode for text in shapes in WordprocessingML documents. Default is square. Allowed values are:</p> <ul style="list-style-type: none"> <li>• square - Wraps text inside the shape in a square.</li> <li>• none - Text does not wrap.</li> </ul>                                                                                                                                                                                                                                                             |
|            | position                 | <p>Specifies the kind of positioning used to place an element. Default is static. When the element is contained inside a group, this property shall be absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• static - The element is positioned according to the normal flow of the page. The top and left properties are ignored. If the object is anchored inline, this value is used.</li> <li>• absolute - The element is positioned relative to the parent, using the top and left properties.</li> </ul> |

| Attributes | Description |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |             | <ul style="list-style-type: none"> <li>• <b>relative</b> - The element is positioned according to the normal flow of the page, but the top and left properties are used. The overlap of overlapping elements is governed by the z-index property.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|            | rotation    | Specifies the angle that a shape is rotated, in degrees. Default is 0. Positive angles are clockwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|            | top         | <p>Specifies the position of the top of the containing block of the shape relative to the element above it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• <b>auto</b> - Default position of an element in the flow of the page.</li> <li>• <b>&lt;units&gt;</b> - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• <b>&lt;percentage&gt;</b> - Value expressed as a percentage of the parent object's height.</li> </ul> |
|            | visibility  | <p>Specifies whether a shape is displayed. Only inherit and hidden are used; any other values are mapped to inherit. Default is inherit. Allowed values are:</p> <ul style="list-style-type: none"> <li>• <b>hidden</b> - The shape is not visible, but is still part of the flow of the objects in the browser. Mouse events are not processed.</li> <li>• <b>inherit</b> - The visibility state is inherited from the parent of the shape.</li> </ul>                                                                                                                                                                                                                                                                                                                            |
|            | width       | <p>Specifies the width of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• <b>auto</b> - Default position of an element in the flow of the page.</li> <li>• <b>&lt;units&gt;</b> - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• <b>&lt;percentage&gt;</b> - Value expressed as a percentage of the parent object's width.</li> </ul>                                                                                                                                     |
|            | z-index     | <p>Specifies the display order of overlapping shapes. Default is 0. This property shall not be used for shapes anchored inline. Allowed values are:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| Attributes | Description                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                                                                             | <ul style="list-style-type: none"> <li>• auto - Uses the order that the shapes appear in the page, bottom to top.</li> <li>• &lt;order&gt;- A number that represents the stacking precedence. Shapes with higher numbers are placed on top of those with lower numbers. Negative numbers are allowed.</li> </ul>                                                                                                        |
|            | The following properties are only used by the textbox element (§19.1.2.22): |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|            | Property                                                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                             |
|            | direction                                                                   | <p>Specifies the direction of the text in the textbox. Default is ltr. This property is superceded by the mso-direction-alt property if that is specified. Allowed values are:</p> <ul style="list-style-type: none"> <li>• ltr - Text is displayed left-to-right.</li> <li>• rtl - Text is displayed right-to-left.</li> </ul>                                                                                         |
|            | layout-flow                                                                 | <p>Determines the flow of the text layout in a textbox. Default is horizontal. Allowed values are:</p> <ul style="list-style-type: none"> <li>• horizontal - Text is displayed horizontally.</li> <li>• vertical - Text is displayed vertically.</li> <li>• vertical-ideographic - Ideographic text is displayed vertically.</li> <li>• horizontal-ideographic - Ideographic text is displayed horizontally.</li> </ul> |
|            | mso-direction-alt                                                           | Specifies an alternate direction for text in textboxes. Overrides the direction property. The only allowed value is context.                                                                                                                                                                                                                                                                                            |
|            | mso-fit-shape-to-text                                                       | Specifies whether the shape stretches to fit the text in the textbox. Default is false.                                                                                                                                                                                                                                                                                                                                 |
|            | mso-fit-text-to-shape                                                       | Specifies whether the text stretches to fit the textbox. Default is false.                                                                                                                                                                                                                                                                                                                                              |
|            | mso-layout-flow-alt                                                         | Specifies the alternate layout flow for text in textboxes. This property is used instead of layout-flow when the layout flow is from bottom to top for non-ideographic languages. Its only value is bottom-to-top.                                                                                                                                                                                                      |
|            | mso-next-textbox                                                            | Specifies the ID of the next textbox in a series. Used to keep track of a set of linked textboxes. Default is no value.                                                                                                                                                                                                                                                                                                 |

| Attributes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Description                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | mso-rotate                                                                                                                                                                                                                                          | Specifies a specific rotation value for text in a textbox. Default is 0. Allowed values are: <ul style="list-style-type: none"><li>• 0</li><li>• 90</li><li>• 180</li><li>• -90</li></ul>                                                                                                                                                                                                                                                                                                                                                                                |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | mso-text-scale                                                                                                                                                                                                                                      | Specifies the scaling factor for fitting text to shapes. Default is 0. This property is only used if mso-fit-text-to-shape is true.                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | v-text-anchor                                                                                                                                                                                                                                       | Specifies the vertical anchoring of text in a textbox. Default is top. The alignment of a text anchor only becomes evident if mso-fit-text-to-shape is false. This property is different from the vertical-align CSS property, which is used for ideographic languages. Allowed values are: <ul style="list-style-type: none"><li>• top</li><li>• middle</li><li>• bottom</li><li>• top-center</li><li>• middle-center</li><li>• bottom-center</li><li>• top-baseline</li><li>• bottom-baseline</li><li>• top-center-baseline</li><li>• bottom-center-baseline</li></ul> |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                   |
| The following properties are only used by the textpath element (§19.1.2.23):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                   |
| <table><tr><th>Property</th><th>Description</th></tr><tr><td>font</td><td>Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family.</td></tr><tr><td>font-family</td><td>Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property.</td></tr><tr><td>font-size</td><td>Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property.</td></tr><tr><td>font-style</td><td>Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are:</td></tr></table> |                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Property | Description | font | Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family. | font-family | Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property. | font-size | Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property. | font-style | Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are: |
| Property                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Description                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                   |
| font                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                   |
| font-family                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property.                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                   |
| font-size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property.                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                   |
| font-style                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are:                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                   |

| Attributes      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                           |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------|-------------|--------|----------------------|---------|-----|-----|-----|-----|------|------------------|--------|-----|-----|-----|-----|-----|
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <ul style="list-style-type: none"><li>• normal</li><li>• italic</li><li>• oblique - Treated the same as italic.</li></ul> |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| font-variant    | Specifies the variant style of a font. Default is normal. The values are the same as those of the CSS font-variant property. Allowed values are: <ul style="list-style-type: none"><li>• normal</li><li>• small-caps</li></ul>                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                           |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| font-weight     | <div>Specifies the thickness of the letters of the font. Default is normal. The values are the same as those of the CSS font-weight property. Allowed values are:</div> <table><tr><th>Value</th><th>Description</th></tr><tr><td>normal</td><td rowspan="6">Treated as non-bold.</td></tr><tr><td>lighter</td></tr><tr><td>100</td></tr><tr><td>200</td></tr><tr><td>300</td></tr><tr><td>400</td></tr><tr><td>bold</td><td rowspan="7">Treated as bold.</td></tr><tr><td>bolder</td></tr><tr><td>500</td></tr><tr><td>600</td></tr><tr><td>700</td></tr><tr><td>800</td></tr><tr><td>900</td></tr></table> |                                                                                                                           | Value | Description | normal | Treated as non-bold. | lighter | 100 | 200 | 300 | 400 | bold | Treated as bold. | bolder | 500 | 600 | 700 | 800 | 900 |
| Value           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                           |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| normal          | Treated as non-bold.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                           |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| lighter         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                           |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 100             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                           |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 200             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                           |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 300             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                           |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 400             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                           |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| bold            | Treated as bold.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                           |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| bolder          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                           |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 500             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                           |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 600             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                           |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 700             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                           |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 800             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                           |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 900             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                           |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| mso-text-shadow | Specifies whether a shadow is applied to the text on a text path. Default is false.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                           |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| text-decoration | <div>Specifies the style of text decoration. Default is none. The values are the same as those of the CSS text-decoration property. Allowed values are:</div> <ul style="list-style-type: none"><li>• none</li></ul>                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                           |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |

| Attributes | Description                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                        |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                                                                                                                                                                                                                                | <ul style="list-style-type: none"> <li>• underline</li> <li>• overline</li> <li>• line-through</li> <li>• blink</li> </ul>                                                                                                                                                                                                                                                             |
|            | v-rotate-letters                                                                                                                                                                                                               | Specifies whether the letters of the text are rotated counterclockwise by 90 degrees. Default is false.                                                                                                                                                                                                                                                                                |
|            | v-same-letter-heights                                                                                                                                                                                                          | Specifies whether all letters are the same height regardless of initial case. If true, the lowercase letters are stretched to the height of the uppercase letters. Default is false.                                                                                                                                                                                                   |
|            | v-text-align                                                                                                                                                                                                                   | <p>Specifies the alignment of text. Default is left. Allowed values are:</p> <ul style="list-style-type: none"> <li>• left</li> <li>• right</li> <li>• center</li> <li>• justify</li> <li>• letter-justify - Distributes the extra space between the letters.</li> <li>• stretch-justify - Stretches the letters to fill in the space.</li> </ul>                                      |
|            | v-text-kern                                                                                                                                                                                                                    | Specifies whether kerning is turned on. Default is false.                                                                                                                                                                                                                                                                                                                              |
|            | v-text-reverse                                                                                                                                                                                                                 | Specifies whether the layout order of rows is reversed. Default is false. This is used for vertical text layout.                                                                                                                                                                                                                                                                       |
|            | v-text-spacing-mode                                                                                                                                                                                                            | <p>Specifies the mode for letter spacing. Default is tightening. This property determines whether space is removed between each letter (tightening) or added between each letter (tracking). The amount of letter spacing change is defined by the v-text-spacing property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• tightening</li> <li>• tracking</li> </ul> |
|            | v-text-spacing                                                                                                                                                                                                                 | Specifies the amount of spacing for text in 100ths of single line spacing. Default is 100.                                                                                                                                                                                                                                                                                             |
|            | <p>The line (§19.1.2.12), polyline (§19.1.2.15) and curve (§19.1.2.3) elements ignore the following properties:</p> <ul style="list-style-type: none"> <li>• top</li> <li>• left</li> <li>• width</li> <li>• height</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                        |

| Attributes                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|--------------|----------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------|
|                                   | <p>The following properties are not inherited by an element that references a shapetype element (§19.1.2.20) via the id attribute:</p> <ul style="list-style-type: none"> <li>• flip</li> <li>• height</li> <li>• left</li> <li>• margin-left</li> <li>• margin-top</li> <li>• position</li> <li>• rotation</li> <li>• top</li> <li>• visibility</li> <li>• width</li> <li>• z-index</li> </ul> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| target (Hyperlink Display Target) | <p>Specifies a frame or window that a URL is displayed in. Default is no value. Allowed values are:</p> <table border="1" data-bbox="415 1031 1472 1667"> <thead> <tr> <th>Value</th><th>Description</th></tr> </thead> <tbody> <tr> <td>&lt;targetname&gt;</td><td>String containing the name of the frame or window in which to load the document.</td></tr> <tr> <td>_blank</td><td>Specifies that the linked document is loaded into a new blank window. This window is not named.</td></tr> <tr> <td>_media</td><td>Specifies that the linked document is loaded into the browser's multimedia pane.</td></tr> <tr> <td>_parent</td><td>Specifies that the linked document is loaded into the immediate parent of the document containing the link.</td></tr> <tr> <td>_search</td><td>Specifies that the linked document is loaded into the browser's search pane.</td></tr> <tr> <td>_self</td><td>Specifies that the linked document is loaded into the window in which the link was clicked (the active window).</td></tr> <tr> <td>_top</td><td>Specifies that the linked document is loaded into the topmost window.</td></tr> </tbody> </table> <p>[Example:</p> <pre>&lt;v:shape ...   href="http://www.openxmlformats.org"   target="_self" ... &gt;</pre> | Value | Description | <targetname> | String containing the name of the frame or window in which to load the document. | _blank | Specifies that the linked document is loaded into a new blank window. This window is not named. | _media | Specifies that the linked document is loaded into the browser's multimedia pane. | _parent | Specifies that the linked document is loaded into the immediate parent of the document containing the link. | _search | Specifies that the linked document is loaded into the browser's search pane. | _self | Specifies that the linked document is loaded into the window in which the link was clicked (the active window). | _top | Specifies that the linked document is loaded into the topmost window. |
| Value                             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| <targetname>                      | String containing the name of the frame or window in which to load the document.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| _blank                            | Specifies that the linked document is loaded into a new blank window. This window is not named.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| _media                            | Specifies that the linked document is loaded into the browser's multimedia pane.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| _parent                           | Specifies that the linked document is loaded into the immediate parent of the document containing the link.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| _search                           | Specifies that the linked document is loaded into the browser's search pane.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| _self                             | Specifies that the linked document is loaded into the window in which the link was clicked (the active window).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| _top                              | Specifies that the linked document is loaded into the topmost window.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |



| Attributes                                                                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                         | <p>&lt;/v:shape&gt;</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                           |
| <p>title (Shape Title)</p>                                                                              | <p>Specifies the text displayed when the mouse pointer moves over the shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... title="tooltip" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                       |
| <p>userdrawn (Exists In Master Slide)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether the user has added the shape to a master slide. Default is false. Used by PresentationML.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:userdrawn="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                 |
| <p>userhidden (Hide Script Anchors)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>   | <p>Specifies whether a script anchor is hidden. Default is false. If true, script anchors stay hidden even if the shape is otherwise visible. A script anchor is the visual representation of a script that when displayed in an application.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:userhidden="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <p>wrapcoords (Shape Bounding Polygon)</p>                                                              | <p>Specifies the bounding polygon that surrounds a shape. This is specified using a comma-delimited list of x and y coordinates: "x1,y1,x2,y2,x3,y3,..." This is used when text is</p>                                                                                                                                                                                                                                                                                        |

| Attributes | Description                                                                                                                                                                                                                                                                                                                                                                                     |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <p>tightly wrapped around a shape. Default is no value until the mso-wrap-mode style attribute is set to tight or through.</p> <p>[Example:</p> <pre data-bbox="454 430 1161 525">&lt;v:shape ...   wrapcoords="0,0 0,200, 200,200, 200,0" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |

[Note: The W3C XML Schema definition of this element's content model (CT\_Rect) is located in §A.6.1. end note]

#### 19.1.2.17 roundrect (Rounded Rectangle)

This element is used to draw a rectangle with rounded corners. The CSS2 style content width and height define the width and height of the rectangle.

[Example:

```
<v:roundrect fillcolor="red" arcsize="35%"
  style="position:relative;top:0;left:0;width:200;height:100">
</v:roundrect>
```



end example]

| Parent Elements                                                                                                |
|----------------------------------------------------------------------------------------------------------------|
| background (Part 1, §17.2.1); group (§19.1.2.7); object (Part 1, §17.3.3.19); pict (§14.2.2.2); pict (§14.5.1) |

| Child Elements                         | Subclause |
|----------------------------------------|-----------|
| anchorlock (Anchor Location Is Locked) | §19.3.2.1 |
| borderbottom (Bottom Border)           | §19.3.2.2 |
| borderleft (Left Border)               | §19.3.2.3 |

| Child Elements                         | Subclause  |
|----------------------------------------|------------|
| borderright (Right Border)             | §19.3.2.4  |
| bordertop (Top Border)                 | §19.3.2.5  |
| callout (Callout)                      | §19.2.2.2  |
| ClientData (Attached Object Data)      | §19.4.2.12 |
| clippath (Shape Clipping Path)         | §19.2.2.3  |
| extrusion (3D Extrusion)               | §19.2.2.11 |
| fill (Shape Fill Properties)           | §19.1.2.5  |
| formulas (Set of Formulas)             | §19.1.2.6  |
| handles (Set of Handles)               | §19.1.2.9  |
| imagedata (Image Data)                 | §19.1.2.11 |
| lock (Shape Protections)               | §19.2.2.18 |
| path (Shape Path)                      | §19.1.2.14 |
| shadow (Shadow Effect)                 | §19.1.2.18 |
| signatureline (Digital Signature Line) | §19.2.2.30 |
| skew (Skew Transform)                  | §19.2.2.31 |
| stroke (Line Stroke Settings)          | §19.1.2.21 |
| textbox (Text Box)                     | §19.1.2.22 |
| textdata (VML Diagram Text)            | §19.5.2.2  |
| textpath (Text Layout Path)            | §19.1.2.23 |
| wrap (Text Wrapping)                   | §19.3.2.6  |

| Attributes                                                                                     | Description                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| allowincell (Allow in Table Cell)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | Specifies whether a shape can be placed in a table. Default is false.<br><br>[Example:<br><br><pre>&lt;v:shape ... o:allowincell="true" ... &gt; &lt;/v:shape&gt;</pre> <i>end example</i> ]<br><br>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5). |
| allowoverlap (Allow Shape Overlap)                                                             | Specifies whether a shape can overlap another shape. Default is true. If false, the shape shifts left or right so as not to overlap another shape, similar to the behavior of the HTML float attribute.                                                                                             |

| Attributes                                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Namespace:<br>urn:schemas-microsoft-com:office:office | <p>[<i>Example:</i></p> <pre>&lt;v:shape ... o:allowoverlap="false" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| alt (Alternate Text)                                  | <p>Specifies alternative text describing the graphical object. This text should provide a brief description of the shape for use by accessibility tools. Default is no value.</p> <p>[<i>Example:</i> The alt text describes the basic shape:</p> <pre>&lt;v:shape ... fillcolor="red" alt="Red rectangle"&gt; &lt;/v:shape&gt;</pre> <p>The alt text describes the contents of a shape displaying an image:</p> <pre>&lt;v:shape ... alt="Picture of a sunset"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                       |
| arcsize (Rounded Corner Arc Size)                     | <p>Specifies the amount of roundness for a rounded rectangle as a percentage of half the smaller dimension of the length and width of the rectangle. Default is 20%. An arc size of 0% yields square corners and 100% forms circular corners. A square with an arc size value of 100% is a circle. This numeric value can also be specified in 1/65536-ths if a trailing "f" is supplied. [<i>Example:</i> For example, a value of "52429f" represents 52429/65536 or 0.8. <i>end example]</i></p> <p>[<i>Example:</i></p> <pre>&lt;v:roundrect ... arcsize="35%"&gt; &lt;/v:roundrect&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| borderbottomcolor (Bottom Border)                     | <p>Specifies the bottom border color of an inline shape. Default is no value.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| Attributes                                                                                                     | Description                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Color)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>                                    | <p>[Example:</p> <pre>&lt;v:shape ... o:borderbottomcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                 |
| <p>borderleftcolor<br/>(Border Left Color)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>   | <p>Specifies the left border color of an inline shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:borderleftcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>   |
| <p>borderrightcolor<br/>(Border Right Color)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies the right border color of an inline shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:borderrightcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <p>bordertopcolor<br/>(Border Top Color)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>     | <p>Specifies the top border color of an inline shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:bordertopcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>     |
| <p>bullet (Graphical Bullet)</p>                                                                               | <p>Specifies whether the shape is a graphical bullet. Default is false.</p> <p>[Example:</p>                                                                                                                                                                                                         |

| Attributes                                                                                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Namespace:<br>urn:schemas-microsoft-com:office:office                                        | <pre>&lt;v:shape ... o:bullet="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| button (Button Behavior Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies whether a shape exhibits button press behavior on click. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:button="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| bwmode (Black-and-White Mode)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office   | <p>Specifies how a shape renders for black-and-white output devices. When a shape is printed on a black-and-white printer or displayed in a black-and-white view in an application, several options are possible. Default is auto, which uses o:bwnormal for normal black-and-white rendering and o:bwpure for pure black-and-white rendering.</p> <p>bwnormal and bwpure are subordinate to bwmode. If bwmode is "auto" then the value for bwnormal or bwpure is used depending on what the output format is. An application can define for itself what, if any, difference there is between normal B&amp;W and pure B&amp;W. [Example: Normal B&amp;W might allow greyscale and pure B&amp;W might not. <i>end example]</i></p> <p>[Example: This shape renders in grayscale in a black-and-white environment:</p> <pre>&lt;v:shape ... o:bwmode="grayscale" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3).</p> |
| bwnormal (Normal Black-and-White Mode)<br><br>Namespace:<br>urn:schemas-microsoft-           | <p>Specifies the black-and-white mode for normal black-and-white output devices. Default is auto.</p> <p>[Example: This shape renders in a pale grayscale in a normal black-and-white environment:</p> <pre>&lt;v:shape ... o:bwmode="auto" o:bwnormal="lightgrayscale" ... &gt;</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

| Attributes                                                                                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| com:office:office                                                                               | <p>&lt;/v:shape&gt;</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3).</p>                                                                                                                                                                                                                                                                           |
| bwpure (Pure Black-and-White Mode)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies the black-and-white mode for pure black-and-white output devices. Default is auto.</p> <p>[Example: This shape renders in high contrast when in a pure black-and-white environment:</p> <pre>&lt;v:shape ... o:bwmode="auto" o:bwpure="highcontrast" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3).</p> |
| chromakey (Image Transparency Color)                                                            | <p>Specifies a color value that is transparent and show anything behind the shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:image ... chromakey="white" ...&gt; &lt;/v:image&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p>                                                                                             |
| class (CSS Reference)                                                                           | <p>Specifies a reference to the definition of a CSS style. Default is no value.</p> <p>[Example: The snippets below are equivalent:</p> <pre>... .narrowstyle {width:50;height:100} ... &lt;v:shape ... class="narrowstyle"   style="top:1;left:1"&gt; &lt;/v:shape&gt;</pre> <pre>&lt;v:shape ... style="top:1;left:1;   width:50;height:100"&gt; &lt;/v:shape&gt;</pre>                                                        |

| Attributes                                                                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                            | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                |
| <p>clip (Clipping Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>                | <p>Specifies that the clipping region is active. This is used in conjunction with the clippath (§19.2.2.3) element to create a clipping region.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:clip="true"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                       |
| <p>cliptowrap (Clip to Wrapping Polygon)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies that the clipping region for the shape aligns with the wrapping polygon that tightly surrounds the entire shape (essentially, that the shape shall not be drawn beyond its wrapping polygon's extents – if it does, the shape shall be clipped). Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:cliptowrap="true"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <p>connectortype (Shape Connector Type)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>  | <p>Specifies the kind of connector used for joining shapes. Default is straight.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:connectortype="elbow" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ConnectorType simple type (§19.2.3.7).</p>                                                                                                                                                                                   |
| <p>coordorigin (Coordinate Space Origin)</p>                                                               | <p>Specifies the coordinate of the top left corner of the shape's coordinate space. This determines the position of the (0,0) coordinate space origin within the shape's bounding box. Default is "0,0", which places the (0,0) origin at the top left corner of the bounding box.</p>                                                                                                                                                                                                                     |



| Attributes                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                             | <p>This affects shape properties that specify coordinate positions, such as the path attribute. Thus a path can be defined against a generic (0,0) origin and the coordorigin value translates the entire path within the shape's bounding space.</p> <p>[Example: The horizontal and vertical coordinate space ranges from -100 to +100 because the coordinate space (coordsize) is 200 by 200 and the top left coordinate is (-100,-100). The (0,0) origin lies at the center of the shape's bounding box, as evidenced by the position of the shape's path within the coordinate space:</p> <pre>&lt;v:shape ... coordsize="200,200"   coordorigin="-100,-100"   path="m 0,0 l 0,50, 50,50, 50,0 x e"&gt; &lt;/v:shape&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <b>coordsize</b><br>(Coordinate Space Size) | <p>Specifies the size of the shape's coordinate space in coordinate units. Default is "1000,1000".</p> <p>The physical size of a coordinate unit length is determined by both the size of the coordinate space (coordsize) and the size of the shape (style width and height). The coordsize attribute defines the number of horizontal and vertical subdivisions into which the shape's bounding box is divided. The combination of coordsize and style width/height effective scales the shape anisotropically.</p> <p>[Example: The path is 50 units wide and tall, which is 25% of the size of the coordinate space:</p> <pre>&lt;v:shape ... coordsize="200,200"   coordorigin="-100,-100"   path="m 0,0 l 0,50, 50,50, 50,0 x e"&gt; &lt;/v:shape&gt;</pre>  <p>end example]</p>                                                                  |

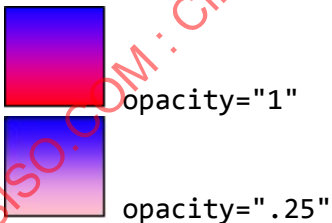
| Attributes                                                                                                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                      | The possible values for this attribute are defined by the W3C XML Schema string datatype.                                                                                                                                                                                                                                                                                                                                                                                                |
| dgmlayout<br>(Diagram Node Layout Identifier)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office           | <p>Specifies the kind of automatic layout to apply to the diagram node. This is only meaningful if the shape is a node in an organization chart, which is denoted by the orgchart value of the editas attribute of the group element.</p> <p>[Example:</p> <pre>&lt;v:shape ... dgmlayout="1"&gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_DiagramLayout simple type (§19.2.3.10).</p>                                 |
| dgmlayoutmru<br>(Diagram Node Recent Layout Identifier)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies the kind of automatic layout most recently used on the child elements of the diagram node. This is only meaningful if the shape is a node in an organization chart, which is denoted by the orgchart value of the editas attribute of the group element.</p> <p>[Example:</p> <pre>&lt;v:shape ... dgmlayout="1"&gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_DiagramLayout simple type (§19.2.3.10).</p> |
| dgmnodekind<br>(Diagram Node Identifier)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office                | <p>Specifies an optional, application-defined parameter that is intended to be used by the application to tag different types of nodes in a diagram.</p> <p>[Example:</p> <pre>&lt;v:shape ... dgmnodekind="1"&gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema integer datatype.</p>                                                                                                                          |
| doubleclicknotify<br>(Double-click Notification Toggle)<br><br>Namespace:                                            | <p>Specifies that an event message is sent when a shape is double-clicked. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:doubleclicknotify="true" ... &gt;</pre>                                                                                                                                                                                                                                                                                                         |

| Attributes                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| urn:schemas-microsoft-com:office:office | <p>&lt;/v:shape&gt;</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| fillcolor (Fill Color)                  | <p>Specifies the color to use for the fill. Default is white. If the fill element (§19.1.2.5) is present, its color attribute takes precedence. Colors are typically specified as either a named color, such as red, or six hexadecimal digits representing the red, green and blue values of the color, such as #00FF30. Full details are specified in the simple type description.</p> <p>[Example: This shape is red if its fill is visible:</p> <pre>&lt;v:shape ... fillcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p>This is equivalent to:</p> <pre>&lt;v:shape ... fillcolor="#ff0000" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p> |
| filled (Shape Fill Toggle)              | <p>Specifies whether the closed path is filled. Default is true. This attribute is overridden by the fill on attribute.</p> <p>[Example:</p> <pre>&lt;v:shape ... filled="f" fillcolor="red" ...&gt; &lt;/v:shape&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                 |
| forcedash (Force Dashed Outline)        | <p>Specifies whether a dashed outline is used to draw a shape when a shape has no line or fill. Default is false.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| Attributes                                                                                               | Description                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>                                            | <p>Used by PresentationML placeholders to draw a dashed outline when there is no line and no fill for a shape.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:forcedash="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <p>hr (Horizontal Rule Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>         | <p>Specifies that a shape is a horizontal rule. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hr="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                     |
| <p>hralign (Horizontal Rule Alignment)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies the alignment of a horizontal rule. Default is left.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hralign="center" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_HrAlign simple type (§19.2.3.16).</p>                                               |
| <p>href (Hyperlink Target)</p>                                                                           | <p>Specifies a hyperlink URL target for the shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... href="http://www.openxmlformats.org" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string</p>                                      |

| Attributes                                                                                                           | Description                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                      | datatype.                                                                                                                                                                                                                                                                                                                                  |
| <b>hrnoshade</b><br>(Horizontal Rule 3D Shading Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies that the horizontal rule does not have 3-D shading. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hrnoshade="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                 |
| <b>hrpct</b> (Horizontal Rule Length Percentage)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office        | <p>Specifies the length of a horizontal rule as a percentage of page width. Default is 0.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hrpct="85" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema float datatype.</p>                                       |
| <b>hrstd</b> (Horizontal Rule Standard Display Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office  | <p>Specifies whether a shape is displayed as a standard horizontal rule. Only applies if hr is true. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hrstd="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <b>id</b> (Unique Identifier)                                                                                        | <p>Specifies a unique identifier that can be used to reference a VML object.</p> <p>Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... id="myShape" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p>                                                                                                                        |

| Attributes                                                                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                    | The possible values for this attribute are defined by the W3C XML Schema string datatype.                                                                                                                                                                                                                                                                                                                                     |
| insetmode (Text Inset Mode)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office           | <p>Specifies whether the application calculates the internal text margin instead of using the inset attribute. Default is custom. This attribute is only meaningful for text boxes.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:insetmode="auto" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_InsetMode simple type (§19.2.3.17).</p>                  |
| insetpen (Inset Border From Path)                                                                  | <p>Specifies that the border shall be displayed inside of the path defining the shape, rather than along the path (the default border placement), or outside of the path as might be done with an image.</p> <p>[Example:</p> <pre>&lt;v:shape ... insetpen="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| ole (Embedded Object Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office          | <p>Specifies whether the shape is an embedded object. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:ole="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalseBlank simple type (§20.1.2.6).</p>                                                                                                                                |
| oleicon (Embedded Object Icon Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies whether an embedded object is displayed as an icon. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:oleicon="true" ... &gt; &lt;/v:shape&gt;</pre>                                                                                                                                                                                                                                                 |

| Attributes                                                                                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                 | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <p>oned (Shape Handle Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether the extra handles of a shape are hidden. If true, hides all shape handles except the top left and bottom right; that is, the same handles that are used for a straight line segment. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:oned="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                              |
| <p>opacity (Fill Color Opacity)</p>                                                             | <p>Specifies the opacity of the primary fill color. Default is 1.0. This numeric value can also be specified in 1/65536-ths if a trailing "f" is supplied. [Example: A value of "52429f" represents 52429/65536 or 0.8. <i>end example]</i></p> <p>[Example: The red color is 25% opaque:</p> <pre>&lt;v:fill type="gradient" color="red" color2="blue" opacity=".25"&gt; &lt;/v:fill&gt;</pre> <div data-bbox="451 1220 781 1440">  <p>opacity="1"</p> <p>opacity=".25"</p> </div> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <p>preferrelative (Relative Resize Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-</p>     | <p>Specifies whether the original size of an object is saved after reformatting. Default is false. If true, the original size of the object is stored and all resizing is based on a percentage of that original size. Otherwise, each resizing resets the scale to 100%.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:preferrelative="true" ... &gt;</pre>                                                                                                                                                                                                                                                                                                                                         |

| Attributes                                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| com:office:office                                                                   | <p>&lt;/v:shape&gt;</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                            |
| print (Print Toggle)                                                                | <p>Specifies whether the shape is printed. Default is true.</p> <p>[Example:</p> <pre>&lt;v:shape ... print="false" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                |
| regroupid (Regroup ID)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies a previous group for a shape. An ID number is used to identify groups of shapes that are no longer grouped. This allows shapes to be regrouped programmatically.</p> <p>[Example: The shape was part of a group identified by the ID 040754:</p> <pre>&lt;v:shape ... o:regroupid="040754" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema integer datatype.</p> |
| spid (Optional String)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies an optional string that an application can use to identify the particular shape. Default is no value.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                              |
| spt (Optional Number)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office  | <p>Specifies an optional number that an application can use to associate the particular shape with a defined shape type. Default is 0.</p> <p>The possible values for this attribute are defined by the W3C XML Schema float datatype.</p>                                                                                                                                                                                                                           |
| strokecolor (Shape Stroke Color)                                                    | <p>Specifies the primary color of the brush to use to stroke the path of the shape. Default is black. The color attribute of the stroke element (§19.1.2.21) overrides this. Colors are</p>                                                                                                                                                                                                                                                                          |



| Attributes                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    | <p>typically specified as either a named color, such as red, or six hexadecimal digits representing the red, green and blue values of the color, such as #00FF30. Full details are specified in the simple type description.</p> <p>[Example:</p> <pre>&lt;v:shape ... strokecolor="red" ...&gt; &lt;/v:shape&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p>                                |
| stroked (Shape Stroke Toggle)      | <p>Specifies whether the path defining the shape is stroked with a solid line. The stroke element (§19.1.2.21) defines other strokes. The on attribute of the stroke element overrides this attribute. Default is true.</p> <p>[Example:</p> <pre>&lt;v:shape ... fillcolor="red"   stroked="false" strokecolor="blue"...&gt; &lt;/v:shape&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| strokeweight (Shape Stroke Weight) | <p>Specifies the width of the brush to use to stroke the path. Default is 1 point. If a number is given without units, the emu is used. The weight attribute of the stroke element (§19.1.2.21) overrides this attribute.</p> <p>[Example:</p> <pre>&lt;v:shape ... strokeweight="3pt" ... &gt; &lt;/v:shape&gt;</pre>                                                                                                                                                                                                                                              |

| Attributes                       | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                            |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------|
|                                  |  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                            |
| style (Shape Styling Properties) | <p>Specifies the CSS2 styling properties of the shape. The CSS2 (Cascading Style Sheets, Level 2) specification, a Recommendation of the World Wide Web Consortium, is available here: <a href="http://www.w3.org/TR/REC-CSS2">http://www.w3.org/TR/REC-CSS2</a>.</p> <p>This attribute uses a semi-colon delimited list of “name:value” pairs, the syntax defined by section 4.1.8 of the CSS2 specification for grouped declarations (without the surrounding braces). The following tables define the allowed properties and the VML treatment of each.</p> <p>[Example:<br/> <code>&lt;v:shape ... style='position:absolute;width:100pt;height:50pt' ...</code><br/> <code>&gt;</code><br/> <code>&lt;/v:shape&gt;</code><br/> <i>end example]</i></p> <table border="1"> <thead> <tr> <th data-bbox="415 1077 662 1123">Property</th><th data-bbox="662 1077 1477 1123">Description</th></tr> </thead> <tbody> <tr> <td data-bbox="415 1123 662 1392">flip</td><td data-bbox="662 1123 1477 1392"> <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul> </td></tr> <tr> <td data-bbox="415 1392 662 1801">height</td><td data-bbox="662 1392 1477 1801"> <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> </td></tr> <tr> <td data-bbox="415 1801 662 1877">left</td><td data-bbox="662 1801 1477 1877"> <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page.</p> </td></tr> </tbody> </table> | Property | Description | flip | <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul> | height | <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> | left | <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page.</p> |
| Property                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                            |
| flip                             | <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                            |
| height                           | <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                            |
| left                             | <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                            |

| Attributes | Description   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |               | <p>Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>                                             |
|            | margin-bottom | <p>Specifies the position of the bottom of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> |
|            | margin-left   | <p>Specifies the position of the left of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>    |
|            | margin-right  | <p>Specifies the position of the right of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or</li> </ul>                                                                                                                                                   |

| Attributes | Description                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                                  | <p>ex). If no units are given, pixels (px) is assumed.</p> <ul style="list-style-type: none"> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|            | margin-top                       | <p>Specifies the position of the top of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> |
|            | mso-position-horizontal          | <p>Specifies the horizontal positioning data for objects in WordprocessingML documents. Default is absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• absolute</li> <li>• left</li> <li>• center</li> <li>• right</li> <li>• inside</li> <li>• outside</li> </ul>                                                                                                                                                                                                                                                                                                                                                                           |
|            | mso-position-horizontal-relative | <p>Specifies relative horizontal position data for objects in WordprocessingML documents. This modifies the mso-position-horizontal property. Default is text. Allowed values are:</p> <ul style="list-style-type: none"> <li>• margin</li> <li>• page</li> <li>• text</li> <li>• char</li> </ul>                                                                                                                                                                                                                                                                                                                                                                   |
|            | mso-position-vertical            | <p>Specifies the vertical positioning data for objects in WordprocessingML documents. Default is absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• absolute</li> <li>• top</li> <li>• center</li> <li>• bottom</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                  |

| Attributes | Description                    |                                                                                                                                                                                                                                                                                               |
|------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                                | <ul style="list-style-type: none"> <li>• inside</li> <li>• outside</li> </ul>                                                                                                                                                                                                                 |
|            | mso-position-vertical-relative | <p>Specifies relative vertical position data for objects in WordprocessingML documents. This modifies the mso-position-vertical property. Default is text. Allowed values are:</p> <ul style="list-style-type: none"> <li>• margin</li> <li>• page</li> <li>• text</li> <li>• line</li> </ul> |
|            | mso-wrap-distance-bottom       | <p>Specifies the distance from the bottom of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>           |
|            | mso-wrap-distance-left         | <p>Specifies the distance from the left side of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>        |
|            | mso-wrap-distance-right        | <p>Specifies the distance from the right side of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>       |
|            | mso-wrap-distance-top          | <p>Specifies the distance from the top of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>              |
|            | mso-wrap-edited                | <p>Specifies whether the wrap coordinates were customized by the user. If the wrap coordinates are generated by an editor, this property is true; otherwise they were customized by a user. Default is false.</p>                                                                             |
|            | mso-wrap-style                 | <p>Specifies the wrapping mode for text in shapes in WordprocessingML documents. Default is square. Allowed values are:</p> <ul style="list-style-type: none"> <li>• square - Wraps text inside the shape in a square.</li> <li>• none - Text does not wrap.</li> </ul>                       |

| Attributes | Description |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | position    | <p>Specifies the kind of positioning used to place an element. Default is static. When the element is contained inside a group, this property shall be absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• static - The element is positioned according to the normal flow of the page. The top and left properties are ignored. If the object is anchored inline, this value is used.</li> <li>• absolute - The element is positioned relative to the parent, using the top and left properties.</li> <li>• relative - The element is positioned according to the normal flow of the page, but the top and left properties are used. The overlap of overlapping elements is governed by the z-index property.</li> </ul>            |
|            | rotation    | <p>Specifies the angle that a shape is rotated, in degrees. Default is 0. Positive angles are clockwise.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|            | top         | <p>Specifies the position of the top of the containing block of the shape relative to the element above it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> |
|            | visibility  | <p>Specifies whether a shape is displayed. Only inherit and hidden are used; any other values are mapped to inherit. Default is inherit. Allowed values are:</p> <ul style="list-style-type: none"> <li>• hidden - The shape is not visible, but is still part of the flow of the objects in the browser. Mouse events are not processed.</li> <li>• inherit - The visibility state is inherited from the parent of the shape.</li> </ul>                                                                                                                                                                                                                                                                                                                   |
|            | width       | <p>Specifies the width of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                   |

| Attributes            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |             |           |                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                                                                                                                                     |                       |                                                                                                |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------------------------------------------------------------------------|
|                       | <p>page.</p> <ul style="list-style-type: none"> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul> <p>z-index</p> <p>Specifies the display order of overlapping shapes. Default is 0. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Uses the order that the shapes appear in the page, bottom to top.</li> <li>• &lt;order&gt;- A number that represents the stacking precedence. Shapes with higher numbers are placed on top of those with lower numbers. Negative numbers are allowed.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |             |           |                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                                                                                                                                     |                       |                                                                                                |
|                       | <p>The following properties are only used by the textbox element (§19.1.2.22):</p> <table> <tr> <th data-bbox="415 953 664 1001">Property</th><th data-bbox="664 953 1469 1001">Description</th></tr> <tr> <td data-bbox="415 1001 664 1266">direction</td><td data-bbox="664 1001 1469 1266"> <p>Specifies the direction of the text in the textbox. Default is ltr. This property is superceded by the mso-direction-alt property if that is specified. Allowed values are:</p> <ul style="list-style-type: none"> <li>• ltr - Text is displayed left-to-right.</li> <li>• rtl - Text is displayed right-to-left.</li> </ul> </td></tr> <tr> <td data-bbox="415 1266 664 1640">layout-flow</td><td data-bbox="664 1266 1469 1640"> <p>Determines the flow of the text layout in a textbox. Default is horizontal. Allowed values are:</p> <ul style="list-style-type: none"> <li>• horizontal - Text is displayed horizontally.</li> <li>• vertical - Text is displayed vertically.</li> <li>• vertical-ideographic - Ideographic text is displayed vertically.</li> <li>• horizontal-ideographic - Ideographic text is displayed horizontally.</li> </ul> </td></tr> <tr> <td data-bbox="415 1640 664 1755">mso-direction-alt</td><td data-bbox="664 1640 1469 1755"> <p>Specifies an alternate direction for text in textboxes. Overrides the direction property. The only allowed value is context.</p> </td></tr> <tr> <td data-bbox="415 1755 664 1864">mso-fit-shape-to-text</td><td data-bbox="664 1755 1469 1864"> <p>Specifies whether the shape stretches to fit the text in the textbox. Default is false.</p> </td></tr> </table> | Property | Description | direction | <p>Specifies the direction of the text in the textbox. Default is ltr. This property is superceded by the mso-direction-alt property if that is specified. Allowed values are:</p> <ul style="list-style-type: none"> <li>• ltr - Text is displayed left-to-right.</li> <li>• rtl - Text is displayed right-to-left.</li> </ul> | layout-flow | <p>Determines the flow of the text layout in a textbox. Default is horizontal. Allowed values are:</p> <ul style="list-style-type: none"> <li>• horizontal - Text is displayed horizontally.</li> <li>• vertical - Text is displayed vertically.</li> <li>• vertical-ideographic - Ideographic text is displayed vertically.</li> <li>• horizontal-ideographic - Ideographic text is displayed horizontally.</li> </ul> | mso-direction-alt | <p>Specifies an alternate direction for text in textboxes. Overrides the direction property. The only allowed value is context.</p> | mso-fit-shape-to-text | <p>Specifies whether the shape stretches to fit the text in the textbox. Default is false.</p> |
| Property              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |             |           |                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                                                                                                                                     |                       |                                                                                                |
| direction             | <p>Specifies the direction of the text in the textbox. Default is ltr. This property is superceded by the mso-direction-alt property if that is specified. Allowed values are:</p> <ul style="list-style-type: none"> <li>• ltr - Text is displayed left-to-right.</li> <li>• rtl - Text is displayed right-to-left.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |             |           |                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                                                                                                                                     |                       |                                                                                                |
| layout-flow           | <p>Determines the flow of the text layout in a textbox. Default is horizontal. Allowed values are:</p> <ul style="list-style-type: none"> <li>• horizontal - Text is displayed horizontally.</li> <li>• vertical - Text is displayed vertically.</li> <li>• vertical-ideographic - Ideographic text is displayed vertically.</li> <li>• horizontal-ideographic - Ideographic text is displayed horizontally.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |             |           |                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                                                                                                                                     |                       |                                                                                                |
| mso-direction-alt     | <p>Specifies an alternate direction for text in textboxes. Overrides the direction property. The only allowed value is context.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |             |           |                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                                                                                                                                     |                       |                                                                                                |
| mso-fit-shape-to-text | <p>Specifies whether the shape stretches to fit the text in the textbox. Default is false.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |             |           |                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                                                                                                                                     |                       |                                                                                                |

| Attributes                                                                                                                                                                                                                                                                                                                                      | Description                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |      |                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                 | mso-fit-text-to-shape                                                                                                                                                                                                                               | Specifies whether the text stretches to fit the textbox. Default is false.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |             |      |                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                 | mso-layout-flow-alt                                                                                                                                                                                                                                 | Specifies the alternate layout flow for text in textboxes. This property is used instead of layout-flow when the layout flow is from bottom to top for non-ideographic languages. Its only value is bottom-to-top.                                                                                                                                                                                                                                                                                                                                                       |          |             |      |                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                 | mso-next-textbox                                                                                                                                                                                                                                    | Specifies the ID of the next textbox in a series. Used to keep track of a set of linked textboxes. Default is no value.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |             |      |                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                 | mso-rotate                                                                                                                                                                                                                                          | Specifies a specific rotation value for text in a textbox. Default is 0. Allowed values are: <ul style="list-style-type: none"><li>• 0</li><li>• 90</li><li>• 180</li><li>• -90</li></ul>                                                                                                                                                                                                                                                                                                                                                                                |          |             |      |                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                 | mso-text-scale                                                                                                                                                                                                                                      | Specifies the scaling factor for fitting text to shapes. Default is 0. This property is only used if mso-fit-text-to-shape is true.                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |             |      |                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                 | v-text-anchor                                                                                                                                                                                                                                       | Specifies the vertical anchoring of text in a textbox. Default is top. The alignment of a text anchor only becomes evident if mso-fit-text-to-shape is false. This property is different from the vertical-align CSS property, which is used for ideographic languages. Allowed values are: <ul style="list-style-type: none"><li>• top</li><li>• middle</li><li>• bottom</li><li>• top-center</li><li>• middle-center</li><li>• bottom-center</li><li>• top-baseline</li><li>• bottom-baseline</li><li>• top-center-baseline</li><li>• bottom-center-baseline</li></ul> |          |             |      |                                                                                                                                                                                                                                                     |
| The following properties are only used by the textpath element (§19.1.2.23):                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |      |                                                                                                                                                                                                                                                     |
| <table><tr><th>Property</th><th>Description</th></tr><tr><td>font</td><td>Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family.</td></tr></table> |                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Property | Description | font | Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family. |
| Property                                                                                                                                                                                                                                                                                                                                        | Description                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |      |                                                                                                                                                                                                                                                     |
| font                                                                                                                                                                                                                                                                                                                                            | Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |      |                                                                                                                                                                                                                                                     |



| Attributes | Description          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |             |        |                      |         |     |     |     |     |                  |      |        |     |     |     |
|------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|--------|----------------------|---------|-----|-----|-----|-----|------------------|------|--------|-----|-----|-----|
|            | font-family          | Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |             |        |                      |         |     |     |     |     |                  |      |        |     |     |     |
|            | font-size            | Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |             |        |                      |         |     |     |     |     |                  |      |        |     |     |     |
|            | font-style           | Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are: <ul style="list-style-type: none"><li>• normal</li><li>• italic</li><li>• oblique - Treated the same as italic.</li></ul>                                                                                                                                                                                                                                                                                                                                |       |             |        |                      |         |     |     |     |     |                  |      |        |     |     |     |
|            | font-variant         | Specifies the variant style of a font. Default is normal. The values are the same as those of the CSS font-variant property. Allowed values are: <ul style="list-style-type: none"><li>• normal</li><li>• small-caps</li></ul>                                                                                                                                                                                                                                                                                                                                                                             |       |             |        |                      |         |     |     |     |     |                  |      |        |     |     |     |
|            | font-weight          | Specifies the thickness of the letters of the font. Default is normal. The values are the same as those of the CSS font-weight property. Allowed values are: <table><thead><tr><th>Value</th><th>Description</th></tr></thead><tbody><tr><td>normal</td><td rowspan="5">Treated as non-bold.</td></tr><tr><td>lighter</td></tr><tr><td>100</td></tr><tr><td>200</td></tr><tr><td>300</td></tr><tr><td>400</td><td rowspan="6">Treated as bold.</td></tr><tr><td>bold</td></tr><tr><td>bolder</td></tr><tr><td>500</td></tr><tr><td>600</td></tr><tr><td>700</td></tr><tr><td>800</td></tr></tbody></table> | Value | Description | normal | Treated as non-bold. | lighter | 100 | 200 | 300 | 400 | Treated as bold. | bold | bolder | 500 | 600 | 700 |
| Value      | Description          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |             |        |                      |         |     |     |     |     |                  |      |        |     |     |     |
| normal     | Treated as non-bold. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |             |        |                      |         |     |     |     |     |                  |      |        |     |     |     |
| lighter    |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |             |        |                      |         |     |     |     |     |                  |      |        |     |     |     |
| 100        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |             |        |                      |         |     |     |     |     |                  |      |        |     |     |     |
| 200        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |             |        |                      |         |     |     |     |     |                  |      |        |     |     |     |
| 300        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |             |        |                      |         |     |     |     |     |                  |      |        |     |     |     |
| 400        | Treated as bold.     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |             |        |                      |         |     |     |     |     |                  |      |        |     |     |     |
| bold       |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |             |        |                      |         |     |     |     |     |                  |      |        |     |     |     |
| bolder     |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |             |        |                      |         |     |     |     |     |                  |      |        |     |     |     |
| 500        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |             |        |                      |         |     |     |     |     |                  |      |        |     |     |     |
| 600        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |             |        |                      |         |     |     |     |     |                  |      |        |     |     |     |
| 700        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |             |        |                      |         |     |     |     |     |                  |      |        |     |     |     |
| 800        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |             |        |                      |         |     |     |     |     |                  |      |        |     |     |     |

| Attributes | Description           |                                                                                                                                                                                                                                                                                                                                                                              |  |
|------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|            |                       | 900                                                                                                                                                                                                                                                                                                                                                                          |  |
|            | mso-text-shadow       | Specifies whether a shadow is applied to the text on a text path. Default is false.                                                                                                                                                                                                                                                                                          |  |
|            | text-decoration       | Specifies the style of text decoration. Default is none. The values are the same as those of the CSS text-decoration property. Allowed values are: <ul style="list-style-type: none"><li>• none</li><li>• underline</li><li>• overline</li><li>• line-through</li><li>• blink</li></ul>                                                                                      |  |
|            | v-rotate-letters      | Specifies whether the letters of the text are rotated counterclockwise by 90 degrees. Default is false.                                                                                                                                                                                                                                                                      |  |
|            | v-same-letter-heights | Specifies whether all letters are the same height regardless of initial case. If true, the lowercase letters are stretched to the height of the uppercase letters. Default is false.                                                                                                                                                                                         |  |
|            | v-text-align          | Specifies the alignment of text. Default is left. Allowed values are: <ul style="list-style-type: none"><li>• left</li><li>• right</li><li>• center</li><li>• justify</li><li>• letter-justify - Distributes the extra space between the letters.</li><li>• stretch-justify - Stretches the letters to fill in the space.</li></ul>                                          |  |
|            | v-text-kern           | Specifies whether kerning is turned on. Default is false.                                                                                                                                                                                                                                                                                                                    |  |
|            | v-text-reverse        | Specifies whether the layout order of rows is reversed. Default is false. This is used for vertical text layout.                                                                                                                                                                                                                                                             |  |
|            | v-text-spacing-mode   | Specifies the mode for letter spacing. Default is tightening. This property determines whether space is removed between each letter (tightening) or added between each letter (tracking). The amount of letter spacing change is defined by the v-text-spacing property. Allowed values are: <ul style="list-style-type: none"><li>• tightening</li><li>• tracking</li></ul> |  |

| Attributes                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |                                                                                            |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------|--------------|----------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------|
|                                   | <table border="1" data-bbox="415 247 1477 331"> <tr> <td data-bbox="415 247 662 331">v-text-spacing</td><td data-bbox="662 247 1477 331">Specifies the amount of spacing for text in 100ths of single line spacing. Default is 100.</td></tr> </table> <p>The line (§19.1.2.12), polyline (§19.1.2.15) and curve (§19.1.2.3) elements ignore the following properties:</p> <ul style="list-style-type: none"> <li>• top</li> <li>• left</li> <li>• width</li> <li>• height</li> </ul> <p>The following properties are not inherited by an element that references a shapetype element (§19.1.2.20) via the id attribute:</p> <ul style="list-style-type: none"> <li>• flip</li> <li>• height</li> <li>• left</li> <li>• margin-left</li> <li>• margin-top</li> <li>• position</li> <li>• rotation</li> <li>• top</li> <li>• visibility</li> <li>• width</li> <li>• z-index</li> </ul> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                             | v-text-spacing | Specifies the amount of spacing for text in 100ths of single line spacing. Default is 100. |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |
| v-text-spacing                    | Specifies the amount of spacing for text in 100ths of single line spacing. Default is 100.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |                                                                                            |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |
| target (Hyperlink Display Target) | <p>Specifies a frame or window that a URL is displayed in. Default is no value. Allowed values are:</p> <table border="1" data-bbox="415 1409 1477 1875"> <thead> <tr> <th data-bbox="415 1409 626 1455">Value</th><th data-bbox="626 1409 1477 1455">Description</th></tr> </thead> <tbody> <tr> <td data-bbox="415 1455 626 1539">&lt;targetname&gt;</td><td data-bbox="626 1455 1477 1539">String containing the name of the frame or window in which to load the document.</td></tr> <tr> <td data-bbox="415 1539 626 1623">_blank</td><td data-bbox="626 1539 1477 1623">Specifies that the linked document is loaded into a new blank window. This window is not named.</td></tr> <tr> <td data-bbox="415 1623 626 1707">_media</td><td data-bbox="626 1623 1477 1707">Specifies that the linked document is loaded into the browser's multimedia pane.</td></tr> <tr> <td data-bbox="415 1707 626 1791">_parent</td><td data-bbox="626 1707 1477 1791">Specifies that the linked document is loaded into the immediate parent of the document containing the link.</td></tr> <tr> <td data-bbox="415 1791 626 1875">_search</td><td data-bbox="626 1791 1477 1875">Specifies that the linked document is loaded into the browser's search pane.</td></tr> </tbody> </table> | Value          | Description                                                                                | <targetname> | String containing the name of the frame or window in which to load the document. | _blank | Specifies that the linked document is loaded into a new blank window. This window is not named. | _media | Specifies that the linked document is loaded into the browser's multimedia pane. | _parent | Specifies that the linked document is loaded into the immediate parent of the document containing the link. | _search | Specifies that the linked document is loaded into the browser's search pane. |
| Value                             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |                                                                                            |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |
| <targetname>                      | String containing the name of the frame or window in which to load the document.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                                                                                            |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |
| _blank                            | Specifies that the linked document is loaded into a new blank window. This window is not named.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |                                                                                            |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |
| _media                            | Specifies that the linked document is loaded into the browser's multimedia pane.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                                                                                            |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |
| _parent                           | Specifies that the linked document is loaded into the immediate parent of the document containing the link.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |                                                                                            |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |
| _search                           | Specifies that the linked document is loaded into the browser's search pane.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |                                                                                            |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |

| Attributes                                                                                                                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |                                                                                                                 |                   |                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------|
|                                                                                                                                                                     | <table border="1" data-bbox="415 245 1481 415"> <tr> <td data-bbox="415 245 630 331"><code>_self</code></td><td data-bbox="630 245 1481 331">Specifies that the linked document is loaded into the window in which the link was clicked (the active window).</td></tr> <tr> <td data-bbox="415 331 630 415"><code>_top</code></td><td data-bbox="630 331 1481 415">Specifies that the linked document is loaded into the topmost window.</td></tr> </table> <p data-bbox="415 457 535 485">[Example:</p> <pre data-bbox="451 527 1062 657"> &lt;v:shape ...   href="http://www.openxmlformats.org"   target="_self" ... &gt; &lt;/v:shape&gt; </pre> <p data-bbox="415 699 574 726">end example]</p> <p data-bbox="415 768 1377 831">The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> | <code>_self</code> | Specifies that the linked document is loaded into the window in which the link was clicked (the active window). | <code>_top</code> | Specifies that the linked document is loaded into the topmost window. |
| <code>_self</code>                                                                                                                                                  | Specifies that the linked document is loaded into the window in which the link was clicked (the active window).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    |                                                                                                                 |                   |                                                                       |
| <code>_top</code>                                                                                                                                                   | Specifies that the linked document is loaded into the topmost window.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    |                                                                                                                 |                   |                                                                       |
| <p data-bbox="139 850 350 877">title (Shape Title)</p>                                                                                                              | <p data-bbox="415 850 1481 913">Specifies the text displayed when the mouse pointer moves over the shape. Default is no value.</p> <p data-bbox="415 955 535 982">[Example:</p> <pre data-bbox="451 1024 935 1092"> &lt;v:shape ... title="tooltip" ... &gt; &lt;/v:shape&gt; </pre> <p data-bbox="415 1134 574 1161">end example]</p> <p data-bbox="415 1203 1377 1266">The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                             |                    |                                                                                                                 |                   |                                                                       |
| <p data-bbox="139 1285 363 1348">userdrawn (Exists In Master Slide)</p> <p data-bbox="139 1390 350 1528">Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p data-bbox="415 1285 1481 1348">Specifies whether the user has added the shape to a master slide. Default is false. Used by PresentationML.</p> <p data-bbox="415 1390 535 1417">[Example:</p> <pre data-bbox="451 1459 984 1526"> &lt;v:shape ... o:userdrawn="true" ... &gt; &lt;/v:shape&gt; </pre> <p data-bbox="415 1568 574 1596">end example]</p> <p data-bbox="415 1638 1390 1701">The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                   |                    |                                                                                                                 |                   |                                                                       |
| <p data-bbox="139 1719 357 1782">userhidden (Hide Script Anchors)</p> <p data-bbox="139 1824 311 1894">Namespace:<br/>urn:schemas-</p>                              | <p data-bbox="415 1719 1481 1824">Specifies whether a script anchor is hidden. Default is false. If true, script anchors stay hidden even if the shape is otherwise visible. A script anchor is the visual representation of a script that when displayed in an application.</p> <p data-bbox="415 1866 535 1894">[Example:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    |                                                                                                                 |                   |                                                                       |

| Attributes                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| microsoft-com:office:office         | <pre>&lt;v:shape ... o:userhidden="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                |
| wrapcoords (Shape Bounding Polygon) | <p>Specifies the bounding polygon that surrounds a shape. This is specified using a comma-delimited list of x and y coordinates: "x1,y1,x2,y2,x3,y3,..." This is used when text is tightly wrapped around a shape. Default is no value until the mso-wrap-mode style attribute is set to tight or through.</p> <p>[Example:</p> <pre>&lt;v:shape ...   wrapcoords="0,0 0,200, 200,200, 200,0" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |

[Note: The W3C XML Schema definition of this element's content model ([CT\\_RoundRect](#)) is located in §A.6.1.  
*end note]*

#### 19.1.2.18 shadow (Shadow Effect)

This element adds shadow effects to a shape. The on attribute shall be true for the shadow to be displayed.

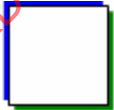
[Example:

```
<v:shadow on="true" type="perspective"
  matrix="1,25,-2,,1.5,,.000001"
  offset="38pt,-6pt">
</v:shadow>
```

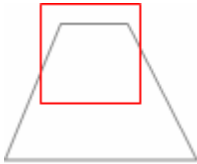


*end example]*

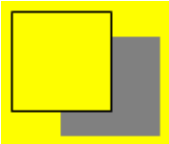
| Parent Elements                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arc (§19.1.2.1); background (Part 1, §17.2.1); curve (§19.1.2.3); group (§19.1.2.7); image (§19.1.2.10); line (§19.1.2.12); object (Part 1, §17.3.3.19); oval (§19.1.2.13); pict (§14.2.2.2); pict (§14.5.1); polyline (§19.1.2.15); rect (§19.1.2.16); roundrect (§19.1.2.17); shape (§19.1.2.19); shapedefaults (§19.2.2.28); shapetype (§19.1.2.20) |

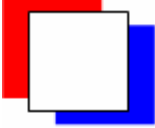
| Attributes                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| color (Shadow Primary Color)    | <p>Specifies the color of the primary shadow. Default is gray (RGB 128,128,128).</p> <p>[Example:</p> <pre>&lt;v:shadow on="true" color="green"&gt; &lt;/v:shadow&gt;</pre> <p>Applied to a simple square the shadow looks like this:</p>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p>                      |
| color2 (Shadow Secondary Color) | <p>Specifies the color of the second shadow, or highlight in an embossed or engraved shadow. Default is light gray (RGB 203,203,203).</p> <p>[Example:</p> <pre>&lt;v:shadow on="true" type="double" color="green" color2="blue"&gt; &lt;/v:shadow&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p> |
| id (Unique Identifier)          | <p>Specifies a unique identifier that can be used to reference a VML object.</p> <p>Default is no value.</p>                                                                                                                                                                                                                                                                                                                                                                |

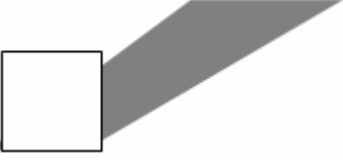
| Attributes                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    | <p>[Example:</p> <pre>&lt;v:shape ... id="myShape" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| matrix (Shadow Perspective Matrix) | <p>Specifies a perspective transform for a shadow. Default is no value.</p> <p>The matrix is given in the form "<math>s_{xx}</math>, <math>s_{xy}</math>, <math>s_{yx}</math>, <math>s_{yy}</math>, <math>p_x</math>, <math>p_y</math>" where <math>s</math> = scale and <math>p</math> = perspective. If the offset attribute is in absolute units then <math>p_x</math>, <math>p_y</math> are in 1/EMU units; otherwise they are an inverse fraction of the shape size.</p> <p>[Example: The following snippets explain the matrix parameters. The shadow is applied to a simple square with no fill and a red stroke color (note there is a default shadow offset):</p> <div data-bbox="451 932 558 1037" data-label="Image"> </div> <p>matrix=",,,,"</p> <p><math>s_{xx}</math>, <math>s_{yy}</math> specify scaling factors for the x and y dimensions:</p> <div data-bbox="451 1159 656 1264" data-label="Image"> </div> <p>matrix="2,,,,,"</p> <div data-bbox="451 1310 558 1520" data-label="Image"> </div> <p>matrix=",,,2,,"</p> <p><math>s_{xy}</math>, <math>s_{yx}</math> specify skews in the x and y dimensions:</p> <div data-bbox="451 1625 753 1730" data-label="Image"> </div> <p>matrix=",2,,,,,"</p> |

| Attributes                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                       | <div data-bbox="451 239 560 546"></div> <div data-bbox="576 520 833 552"><p>matrix="",-2,,,"</p></div> <p data-bbox="415 594 1404 625"><math>p_x, p_y</math> effectively set the perspective trapezoid skews along the x and y dimensions:</p> <div data-bbox="451 661 560 793"></div> <div data-bbox="576 768 914 800"><p>matrix=",,,,.000001,"</p></div> <div data-bbox="451 835 646 997"></div> <div data-bbox="662 972 1016 1003"><p>matrix=",,,,-.000002"</p></div> <p data-bbox="415 1045 574 1077"><i>end example]</i></p> <p data-bbox="415 1119 532 1150"><i>[Example:</i></p> <div data-bbox="451 1186 1060 1318"><pre>&lt;v:shadow on="true" type="perspective"   matrix="1.25,-2,,1.5,,.000001"   offset="38pt,-6pt"&gt; &lt;/v:shadow&gt;</pre></div> <div data-bbox="415 1354 803 1522"></div> <p data-bbox="415 1564 574 1596"><i>end example]</i></p> <p data-bbox="415 1633 1375 1701">The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <p>obscured (Shadow Transparency)</p> | <p>Specifies whether a shadow is transparent. Default is <code>false</code>. If <code>true</code>, the shadow is transparent if there is no fill on the shape.</p> <p><i>[Example:</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |



| Attributes                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                   | <pre> &lt;v:background fillcolor="yellow"/&gt; &lt;v:shape style="width:50;height:50"   filled="false" fillcolor="red"   path="m 0,0 l 0,1000 1000,1000 1000,0 x e"&gt;   &lt;v:shadow on="true" offset="50%,25%"     obscured="true"&gt;   &lt;/v:shadow&gt; &lt;/v:shape&gt; </pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                       |
| offset (Shadow Primary Offset)    | <p>Specifies the primary shadow's x,y offset from the shape's location. Default is "2pt,2pt".</p> <p>Values are either an absolute measurement or a fractional value of the shape dimensions, from –50% to 50%.</p> <p>[Example:</p> <pre> &lt;v:shadow on="true" offset="50%,25%"&gt; &lt;/v:shadow&gt; </pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| offset2 (Shadow Secondary Offset) | <p>Specifies the secondary shadow's x,y offset from the shape's location. Default is "-2pt,-2pt".</p> <p>[Example:</p> <pre> &lt;v:shadow type="double" on="true"   color="blue" offset="10pt,5pt"   color2="red" offset2="-10pt,-5pt"&gt; &lt;/v:shadow&gt; </pre>                                                                                                                                                                                                                                                             |

| Attributes               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          |  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| on (Shadow Toggle)       | <p>Specifies whether to show a shadow. Default is true.</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| opacity (Shadow Opacity) | <p>Specifies the opacity of the shadow. Default is 1. This numeric value can also be specified in 1/65536ths if a trailing "f" is supplied. <i>[Example: For example, a value of "52429f" represents 52429/65536 or 0.8. end example]</i></p> <p><i>[Example:</i></p> <pre>&lt;v:shadow type="double" on="true" opacity=".5"   color="blue" offset="10pt,5pt"   color2="red" offset2="-10pt,-5pt"&gt; &lt;/v:shadow&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| origin (Shadow Origin)   | <p>Specifies the center of the shadow relative to the shape's origin. Specified as a pair of fractional values of the shape dimensions, ranging from 50% to -50%. Default is "0,0".</p> <p><i>[Example: This example is unchanged from above except for the addition of the origin attribute:</i></p> <pre>&lt;v:shadow on="true" type="perspective"   matrix="1.25,-2,,1.5,,.000001"   offset="38pt,-6pt" origin="10%,-10%"&gt; &lt;/v:shadow&gt;</pre>                                                                                                                                                                                      |

| Attributes                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |                     |                |                     |                                                                                                                |                          |                     |                            |                                              |                              |                                                |                     |                                  |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|---------------------|----------------|---------------------|----------------------------------------------------------------------------------------------------------------|--------------------------|---------------------|----------------------------|----------------------------------------------|------------------------------|------------------------------------------------|---------------------|----------------------------------|
|                              |  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |             |                     |                |                     |                                                                                                                |                          |                     |                            |                                              |                              |                                                |                     |                                  |
| type (Shadow Type)           | <p>Specifies the kind of shadow. Default is <code>single</code>. Allowed values are:</p> <table border="1" data-bbox="418 661 1357 1104"> <thead> <tr> <th>Value</th><th>Description</th></tr> </thead> <tbody> <tr> <td><code>single</code></td><td>Single shadow.</td></tr> <tr> <td><code>double</code></td><td>Double shadow. <code>color2</code> and <code>offset2</code> are used for the second shadow's color and offset.</td></tr> <tr> <td><code>perspective</code></td><td>Perspective shadow.</td></tr> <tr> <td><code>shaperelative</code></td><td>The shadow is created relative to the shape.</td></tr> <tr> <td><code>drawingrelative</code></td><td>The shadow is created relative to the drawing.</td></tr> <tr> <td><code>emboss</code></td><td>The shadow has an embossed look.</td></tr> </tbody> </table> <p>The possible values for this attribute are defined by the <code>ST_ShadowType</code> simple type (§19.1.3.6).</p> | Value | Description | <code>single</code> | Single shadow. | <code>double</code> | Double shadow. <code>color2</code> and <code>offset2</code> are used for the second shadow's color and offset. | <code>perspective</code> | Perspective shadow. | <code>shaperelative</code> | The shadow is created relative to the shape. | <code>drawingrelative</code> | The shadow is created relative to the drawing. | <code>emboss</code> | The shadow has an embossed look. |
| Value                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |                     |                |                     |                                                                                                                |                          |                     |                            |                                              |                              |                                                |                     |                                  |
| <code>single</code>          | Single shadow.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |             |                     |                |                     |                                                                                                                |                          |                     |                            |                                              |                              |                                                |                     |                                  |
| <code>double</code>          | Double shadow. <code>color2</code> and <code>offset2</code> are used for the second shadow's color and offset.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |             |                     |                |                     |                                                                                                                |                          |                     |                            |                                              |                              |                                                |                     |                                  |
| <code>perspective</code>     | Perspective shadow.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |             |                     |                |                     |                                                                                                                |                          |                     |                            |                                              |                              |                                                |                     |                                  |
| <code>shaperelative</code>   | The shadow is created relative to the shape.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |             |                     |                |                     |                                                                                                                |                          |                     |                            |                                              |                              |                                                |                     |                                  |
| <code>drawingrelative</code> | The shadow is created relative to the drawing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |             |                     |                |                     |                                                                                                                |                          |                     |                            |                                              |                              |                                                |                     |                                  |
| <code>emboss</code>          | The shadow has an embossed look.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |             |                     |                |                     |                                                                                                                |                          |                     |                            |                                              |                              |                                                |                     |                                  |

[Note: The W3C XML Schema definition of this element's content model (`CT_Shadow`) is located in §A.6.1. *end note]*

#### 19.1.2.19 `shape` (Shape Definition)

This element is used to describe a shape, the core object in VML. This element can appear by itself or within a group element (§19.1.2.7). If a `shapetype` element (§19.1.2.20) is referenced using the `type` attribute, any attributes specified in the shape override those found in the `shapetype`.

[Example:

```
<v:shape style="position:absolute;top:50;left:20;width:50;height:50"
  path="m 0,0 l 0,1000 1000,1000 1000,0 x e">
  <v:shadow on="true" type="perspective"
    matrix="1.25,-2,,1.5,,.000001" offset="38pt,-6pt"/>
</v:shape>
```

```
<v:shape style="position:absolute;top:50;left:20;width:50;height:50"
  fillcolor="yellow" path="m 0,0 l 0,1000 1000,1000 1000,0 x e">
  <v:extrusion on="true" lightposition="0,-2000,10000"/>
</v:shape>
```



*end example]*

| Parent Elements                                                                                                |
|----------------------------------------------------------------------------------------------------------------|
| background (Part 1, §17.2.1); group (§19.1.2.7); object (Part 1, §17.3.3.19); pict (§14.2.2.2); pict (§14.5.1) |

| Child Elements                                   | Subclause  |
|--------------------------------------------------|------------|
| anchorlock (Anchor Location Is Locked)           | §19.3.2.1  |
| borderbottom (Bottom Border)                     | §19.3.2.2  |
| borderleft (Left Border)                         | §19.3.2.3  |
| borderright (Right Border)                       | §19.3.2.4  |
| bordertop (Top Border)                           | §19.3.2.5  |
| callout (Callout)                                | §19.2.2.2  |
| ClientData (Attached Object Data)                | §19.4.2.12 |
| clippath (Shape Clipping Path)                   | §19.2.2.3  |
| equationxml (Storage for Alternate Math Content) | §19.2.2.10 |
| extrusion (3D Extrusion)                         | §19.2.2.11 |
| fill (Shape Fill Properties)                     | §19.1.2.5  |
| formulas (Set of Formulas)                       | §19.1.2.6  |
| handles (Set of Handles)                         | §19.1.2.9  |
| imagedata (Image Data)                           | §19.1.2.11 |
| ink (Ink)                                        | §19.2.2.15 |
| iscomment (Ink Annotation Flag)                  | §19.5.2.1  |
| lock (Shape Protections)                         | §19.2.2.18 |
| path (Shape Path)                                | §19.1.2.14 |
| shadow (Shadow Effect)                           | §19.1.2.18 |
| signatureline (Digital Signature Line)           | §19.2.2.30 |

| Child Elements                | Subclause  |
|-------------------------------|------------|
| skew (Skew Transform)         | §19.2.2.31 |
| stroke (Line Stroke Settings) | §19.1.2.21 |
| textbox (Text Box)            | §19.1.2.22 |
| textdata (VML Diagram Text)   | §19.5.2.2  |
| textpath (Text Layout Path)   | §19.1.2.23 |
| wrap (Text Wrapping)          | §19.3.2.6  |

| Attributes                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| adj (Adjustment Parameters) | <p>Specifies a comma-delimited list of parameters, or adjustment values, used to define values for a parameterized formula. Values can be omitted. There can be up to 8 adjust values. Each value is referenced using # followed by a number corresponding to the zero-based index for that value in the list of adjustment values. [Example: For example, #2 references the second value in the adj list. end example]</p> <p>[Example: The following shape uses formulas to define a simple rectangle. The adj values are referenced by the eqn attribute of the f element (§19.1.2.4) and in turn referenced by the path element (§19.1.2.14).</p> <pre> &lt;v:shape   coordorigin="0 0" coordsize="200 200"   style="position:relative;top:30;left:30;width:20;height:20"   adj="1, 1, 1, 200, 200, 200, 200, 1"&gt;   &lt;v:path v="m @0,@1 l @2,@3, @4,@5, @6,@7 x e"/&gt;   &lt;v:formulas&gt;     &lt;v:f eqn="val #0"/&gt;     &lt;v:f eqn="val #1"/&gt;     &lt;v:f eqn="val #2"/&gt;     &lt;v:f eqn="val #3"/&gt;     &lt;v:f eqn="val #4"/&gt;     &lt;v:f eqn="val #5"/&gt;     &lt;v:f eqn="val #6"/&gt;     &lt;v:f eqn="val #7"/&gt;   &lt;/v:formulas&gt; &lt;/v:shape&gt; </pre> <p>This is the equivalent of:</p> <pre> &lt;v:shape   coordorigin="0 0" coordsize="200 200"   style="position:relative;top:30;left:30;width:20;height:20"   path="m 1,1 l 1,200, 200,200, 200,1 x e"&gt; &lt;/v:shape&gt; </pre> |

| Attributes                                                                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                         | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p>allowincell (Allow in Table Cell)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>  | <p>Specifies whether a shape can be placed in a table. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:allowincell="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                             |
| <p>allowoverlap (Allow Shape Overlap)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether a shape can overlap another shape. Default is true. If false, the shape shifts left or right so as not to overlap another shape, similar to the behavior of the HTML float attribute.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:allowoverlap="false" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                         |
| <p>alt (Alternate Text)</p>                                                                             | <p>Specifies alternative text describing the graphical object. This text should provide a brief description of the shape for use by accessibility tools. Default is no value.</p> <p>[Example: The alt text describes the basic shape:</p> <pre>&lt;v:shape ... fillcolor="red" alt="Red rectangle"&gt; &lt;/v:shape&gt;</pre> <p>The alt text describes the contents of a shape displaying an image:</p> <pre>&lt;v:shape ... alt="Picture of a sunset"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string</p> |

| Attributes                                                                                                     | Description                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                | datatype.                                                                                                                                                                                                                                                                                              |
| <b>borderbottomcolor</b><br>(Bottom Border Color)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | Specifies the bottom border color of an inline shape. Default is no value.<br><br>[Example:<br><br><pre>&lt;v:shape ... o:borderbottomcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <i>end example]</i><br><br>The possible values for this attribute are defined by the W3C XML Schema string datatype. |
| <b>borderleftcolor</b><br>(Border Left Color)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office     | Specifies the left border color of an inline shape. Default is no value.<br><br>[Example:<br><br><pre>&lt;v:shape ... o:borderleftcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <i>end example]</i><br><br>The possible values for this attribute are defined by the W3C XML Schema string datatype.     |
| <b>borderrightcolor</b><br>(Border Right Color)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office   | Specifies the right border color of an inline shape. Default is no value.<br><br>[Example:<br><br><pre>&lt;v:shape ... o:borderrightcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <i>end example]</i><br><br>The possible values for this attribute are defined by the W3C XML Schema string datatype.   |
| <b>bordertopcolor</b><br>(Border Top Color)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office       | Specifies the top border color of an inline shape. Default is no value.<br><br>[Example:<br><br><pre>&lt;v:shape ... o:bordertopcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <i>end example]</i><br><br>The possible values for this attribute are defined by the W3C XML Schema string datatype.       |

| Attributes                                                                                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>bullet (Graphical Bullet)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>       | <p>Specifies whether the shape is a graphical bullet. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:bullet="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>button (Button Behavior Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether a shape exhibits button press behavior on click. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:button="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>bwmode (Black-and-White Mode)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>   | <p>Specifies how a shape renders for black-and-white output devices. When a shape is printed on a black-and-white printer or displayed in a black-and-white view in an application, several options are possible. Default is auto, which uses o:bwnormal for normal black-and-white rendering and o:bwpure for pure black-and-white rendering.</p> <p>bwnormal and bwpure are subordinate to bwmode. If bwmode is "auto" then the value for bwnormal or bwpure is used depending on what the output format is. An application can define for itself what, if any, difference there is between normal B&amp;W and pure B&amp;W. [Example: Normal B&amp;W might allow greyscale and pure B&amp;W might not. end example]</p> <p>[Example: This shape renders in grayscale in a black-and-white environment:</p> <pre>&lt;v:shape ... o:bwmode="grayscale" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3).</p> |
| <p>bwnormal (Normal Black-and-White Mode)</p>                                                        | <p>Specifies the black-and-white mode for normal black-and-white output devices. Default is auto.</p> <p>[Example: This shape renders in a pale grayscale in a normal black-and-white</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |



| Attributes                                                                                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Namespace:<br>urn:schemas-microsoft-com:office:office                                           | environment:<br><br><pre>&lt;v:shape ... o:bwmode="auto" o:bwnormal="lightgrayscale" ... &gt; &lt;/v:shape&gt;</pre> <i>end example]</i><br><br>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3).                                                                                                                                                                                     |
| bwpure (Pure Black-and-White Mode)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | Specifies the black-and-white mode for pure black-and-white output devices. Default is auto.<br><br><i>[Example: This shape renders in high contrast when in a pure black-and-white environment:</i><br><br><pre>&lt;v:shape ... o:bwmode="auto" o:bwpure="highcontrast" ... &gt; &lt;/v:shape&gt;</pre> <i>end example]</i><br><br>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3). |
| chromakey (Image Transparency Color)                                                            | Specifies a color value that is transparent and show anything behind the shape. Default is no value.<br><br><i>[Example:</i><br><br><pre>&lt;v:image ... chromakey="white" ...&gt; &lt;/v:image&gt;</pre> <i>end example]</i><br><br>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).                                                                                             |
| class (CSS Reference)                                                                           | Specifies a reference to the definition of a CSS style. Default is no value.<br><br><i>[Example: The snippets below are equivalent:</i><br><br><pre>... .narrowstyle {width:50;height:100} ... &lt;v:shape ... class="narrowstyle"   style="top:1;left:1"&gt; &lt;/v:shape&gt;</pre>                                                                                                                                             |

| Attributes                                                                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                            | <pre>&lt;v:shape ... style="top:1;left:1; width:50;height:100"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                      |
| <p>clip (Clipping Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>                | <p>Specifies that the clipping region is active. This is used in conjunction with the clippath (§19.2.2.3) element to create a clipping region.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:clip="true"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                       |
| <p>cliptowrap (Clip to Wrapping Polygon)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies that the clipping region for the shape aligns with the wrapping polygon that tightly surrounds the entire shape (essentially, that the shape shall not be drawn beyond its wrapping polygon's extents – if it does, the shape shall be clipped). Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:cliptowrap="true"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <p>connectortype (Shape Connector Type)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>  | <p>Specifies the kind of connector used for joining shapes. Default is straight.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:connectortype="elbow" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ConnectorType simple type (§19.2.3.7).</p>                                                                                                                                                                                   |

| Attributes                                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>coordorigin</b><br>(Coordinate Space Origin) | <p>Specifies the coordinate of the top left corner of the shape's coordinate space. This determines the position of the (0,0) coordinate space origin within the shape's bounding box. Default is "0,0", which places the (0,0) origin at the top left corner of the bounding box.</p> <p>This affects shape properties that specify coordinate positions, such as the path attribute. Thus a path can be defined against a generic (0,0) origin and the coordorigin value translates the entire path within the shape's bounding space.</p> <p>[Example: The horizontal and vertical coordinate space ranges from -100 to +100 because the coordinate space (coordsize) is 200 by 200 and the top left coordinate is (-100,-100). The (0,0) origin lies at the center of the shape's bounding box, as evidenced by the position of the shape's path within the coordinate space:</p> <pre>&lt;v:shape ... coordsize="200,200"   coordorigin="-100,-100"   path="m 0,0 l 0,50, 50,50, 50,0 x e"&gt; &lt;/v:shape&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <b>coordsize</b><br>(Coordinate Space Size)     | <p>Specifies the size of the shape's coordinate space in coordinate units. Default is "1000,1000".</p> <p>The physical size of a coordinate unit length is determined by both the size of the coordinate space (coordsize) and the size of the shape (style width and height). The coordsize attribute defines the number of horizontal and vertical subdivisions into which the shape's bounding box is divided. The combination of coordsize and style width/height effective scales the shape anisotropically.</p> <p>[Example: The path is 50 units wide and tall, which is 25% of the size of the coordinate space:</p> <pre>&lt;v:shape ... coordsize="200,200"   coordorigin="-100,-100"   path="m 0,0 l 0,50, 50,50, 50,0 x e"&gt; &lt;/v:shape&gt;</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

| Attributes                                                                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                             |  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                             |
| <b>dgmlayout</b><br>(Diagram Node Layout Identifier)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office           | <p>Specifies the kind of automatic layout to apply to the diagram node. This is only meaningful if the shape is a node in an organization chart, which is denoted by the <code>orgchart</code> value of the <code>editas</code> attribute of the group element.</p> <p>[Example:</p> <pre>&lt;v:shape ... dgmlayout="1"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_DiagramLayout simple type (§19.2.3.10).</p>                                 |
| <b>dgmlayoutmru</b><br>(Diagram Node Recent Layout Identifier)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies the kind of automatic layout most recently used on the child elements of the diagram node. This is only meaningful if the shape is a node in an organization chart, which is denoted by the <code>orgchart</code> value of the <code>editas</code> attribute of the group element.</p> <p>[Example:</p> <pre>&lt;v:shape ... dgmlayout="1"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_DiagramLayout simple type (§19.2.3.10).</p> |
| <b>dgmnodekind</b><br>(Diagram Node Identifier)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office                | <p>Specifies an optional, application-defined parameter that is intended to be used by the application to tag different types of nodes in a diagram.</p> <p>[Example:</p> <pre>&lt;v:shape ... dgmnodekind="1"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema integer</p>                                                                                                                                                              |

| Attributes                                                                                                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                               | datatype.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <p>doubleclicknotify<br/>(Double-click Notification Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies that an event message is sent when a shape is double-clicked. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:doubleclicknotify="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <p>equationxml<br/>(Storage for Alternate Math Content)</p>                                                                   | <p>Specifies alternate XML markup which can be used to rehydrate an equation using the Office Open XML Math syntax. The actual format of the contents of this attribute is application-defined, but shall contain Office Open XML Math as well as any application-specific content. [Note: This form of storing alternate markup is inappropriate, and to be avoided in favor of the more flexible approach used by the child equationxml element (§19.2.2.10). end note]</p> <p>The XML markup stored in this attribute shall be escaped as needed to contain only those characters legal in an attribute value.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                     |
| <p>fillcolor (Fill Color)</p>                                                                                                 | <p>Specifies the color to use for the fill. Default is white. If the fill element (§19.1.2.5) is present, its color attribute takes precedence. Colors are typically specified as either a named color, such as red, or six hexadecimal digits representing the red, green and blue values of the color, such as #00FF30. Full details are specified in the simple type description.</p> <p>[Example: This shape is red if its fill is visible:</p> <pre>&lt;v:shape ... fillcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p>This is equivalent to:</p> <pre>&lt;v:shape ... fillcolor="#ff0000" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p> |
| <p>filled (Shape Fill)</p>                                                                                                    | <p>Specifies whether the closed path is filled. Default is true. This attribute is overridden</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| Attributes                                                                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toggle)                                                                                       | <p>by the fill on attribute.</p> <p>[Example:</p> <pre>&lt;v:shape ... filled="f"   fillcolor="red" ...&gt; &lt;/v:shape&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| forcedash (Force Dashed Outline)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies whether a dashed outline is used to draw a shape when a shape has no line or fill. Default is false.</p> <p>Used by PresentationML placeholders to draw a dashed outline when there is no line and no fill for a shape.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:forcedash="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| gfxdata (Encoded Package)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office        | <p>Specifies a base-64 encoded package as defined in ISO/IEC 29500-2 that contains DrawingML content as defined in ISO/IEC 29500-1. [Rationale: This attribute allows an application to use VML to represent graphical content for a legacy document while still persisting DrawingML for consuming applications that support DrawingML. For example, a diagram stored within this attribute would have the four parts defined for a DrawingML diagram, as well as any number of application-defined parts and relationships. end rationale]</p> <p>[Example: A DrawingML object is encoded in the gfxdata attribute, leaving VML to handle the visual display:</p> <pre>&lt;v:shape id="Diagram 1" o:spid="_x0000_i1025"   type="#_x0000_t75" style="width:446.25pt;height:252pt;   visibility:visible" o:gfxdata="UESDBBQABgAIAAAAIQDIu8KcTQE..."&gt; &lt;v:imagedata r:id="rId4" o:title=""/&gt;</pre> |

| Attributes                                                                                               | Description                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                          | <p>&lt;/v:shape&gt;</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema base64Binary datatype.</p>                                                                                                                                                          |
| <p>hr (Horizontal Rule Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>         | <p>Specifies that a shape is a horizontal rule. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hr="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                          |
| <p>hralign (Horizontal Rule Alignment)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies the alignment of a horizontal rule. Default is left.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hralign="center" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_HrAlign simple type (§19.2.3.16).</p>                    |
| <p>href (Hyperlink Target)</p>                                                                           | <p>Specifies a hyperlink URL target for the shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... href="http://www.openxmlformats.org" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <p>hrnoshade (Horizontal Rule 3D Shading Toggle)</p> <p>Namespace:<br/>urn:schemas-</p>                  | <p>Specifies that the horizontal rule does not have 3-D shading. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hrnoshade="true" ... &gt; &lt;/v:shape&gt;</pre>                                                                                                                                    |

| Attributes                                                                                                           | Description                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| microsoft-com:office:office                                                                                          | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                 |
| <p>hrpct (Horizontal Rule Length Percentage)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>       | <p>Specifies the length of a horizontal rule as a percentage of page width. Default is 0.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hrpct="85" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema float datatype.</p>                                       |
| <p>hrstd (Horizontal Rule Standard Display Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether a shape is displayed as a standard horizontal rule. Only applies if hr is true. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hrstd="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <p>id (Unique Identifier)</p>                                                                                        | <p>Specifies a unique identifier that can be used to reference a VML object.</p> <p>Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... id="myShape" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                       |
| <p>insetmode (Text Inset Mode)</p> <p>Namespace:<br/>urn:schemas-</p>                                                | <p>Specifies whether the application calculates the internal text margin instead of using the inset attribute. Default is custom. This attribute is only meaningful for text boxes.</p> <p>[Example:</p>                                                                                                                                          |



| Attributes                                                                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| microsoft-com:office:office                                                                        | <pre>&lt;v:shape ... o:insetmode="auto" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_InsetMode simple type (§19.2.3.17).</p>                                                                                                                                                                                                                           |
| insetpen (Inset Border From Path)                                                                  | <p>Specifies that the border shall be displayed inside of the path defining the shape, rather than along the path (the default border placement), or outside of the path as might be done with an image.</p> <p>[Example:</p> <pre>&lt;v:shape ... insetpen="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| ole (Embedded Object Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office          | <p>Specifies whether the shape is an embedded object. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:ole="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalseBlank simple type (§20.1.2.6).</p>                                                                                                                                |
| oleicon (Embedded Object Icon Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies whether an embedded object is displayed as an icon. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:oleicon="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                      |
| oned (Shape Handle Toggle)                                                                         | <p>Specifies whether the extra handles of a shape are hidden. If true, hides all shape handles except the top left and bottom right; that is, the same handles that are used for a straight line segment. Default is false.</p>                                                                                                                                                                                                      |

| Attributes                                                                                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Namespace:<br>urn:schemas-microsoft-com:office:office                                                | <p>[Example:</p> <pre>&lt;v:shape ... o:oned="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| opacity (Fill Color Opacity)                                                                         | <p>Specifies the opacity of the primary fill color. Default is 1.0. This numeric value can also be specified in 1/65536-ths if a trailing "f" is supplied. [Example: A value of "52429f" represents 52429/65536 or 0.8. end example]</p> <p>[Example: The red color is 25% opaque:</p> <pre>&lt;v:fill type="gradient" color="red"   color2="blue" opacity=".25"&gt; &lt;/v:fill&gt;</pre> <div data-bbox="451 961 779 1180">  opacity="1"<br/>  opacity=".25" </div> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| path (Edge Path)                                                                                     | <p>Specifies the line that makes up the edges of a shape. See the v attribute of the path element (§19.1.2.14) for a full description.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| preferrelative (Relative Resize Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies whether the original size of an object is saved after reformatting. Default is false. If true, the original size of the object is stored and all resizing is based on a percentage of that original size. Otherwise, each resizing resets the scale to 100%.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:preferrelative="true" ... &gt; &lt;/v:shape&gt;</pre>                                                                                                                                                                                                                                                                                                                                                                                     |

| Attributes                                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                             | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                    |
| <p>print (Print Toggle)</p>                                                                 | <p>Specifies whether the shape is printed. Default is true.</p> <p>[Example:</p> <pre>&lt;v:shape ... print="false" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                |
| <p>regroupid (Regroup ID)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies a previous group for a shape. An ID number is used to identify groups of shapes that are no longer grouped. This allows shapes to be regrouped programmatically.</p> <p>[Example: The shape was part of a group identified by the ID 040754:</p> <pre>&lt;v:shape ... o:regroupid="040754" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema integer datatype.</p> |
| <p>spid (Optional String)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies an optional string that an application can use to identify the particular shape. Default is no value.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                              |
| <p>spt (Optional Number)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>  | <p>Specifies an optional number that an application can use to associate the particular shape with a defined shape type. Default is 0.</p> <p>The possible values for this attribute are defined by the W3C XML Schema float datatype.</p>                                                                                                                                                                                                                           |
| <p>strokecolor (Shape Stroke Color)</p>                                                     | <p>Specifies the primary color of the brush to use to stroke the path of the shape. Default is black. The color attribute of the stroke element (§19.1.2.21) overrides this. Colors are typically specified as either a named color, such as red, or six hexadecimal digits representing the red, green and blue values of the color, such as #00FF30. Full details</p>                                                                                              |

| Attributes                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    | <p>are specified in the simple type description.</p> <p>[Example:</p> <pre>&lt;v:shape ... strokecolor="red" ...&gt; &lt;/v:shape&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p>                                                                                                                                                                                                            |
| stroked (Shape Stroke Toggle)      | <p>Specifies whether the path defining the shape is stroked with a solid line. The stroke element (§19.1.2.21) defines other strokes. The on attribute of the stroke element overrides this attribute. Default is true.</p> <p>[Example:</p> <pre>&lt;v:shape ... fillcolor="red"   stroked="false" strokecolor="blue"...&gt; &lt;/v:shape&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| strokeweight (Shape Stroke Weight) | <p>Specifies the width of the brush to use to stroke the path. Default is 1 point. If a number is given without units, the emu is used. The weight attribute of the stroke element (§19.1.2.21) overrides this attribute.</p> <p>[Example:</p> <pre>&lt;v:shape ... strokeweight="3pt" ... &gt; &lt;/v:shape&gt;</pre>                                                                                                                                                           |

| Attributes                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                         | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                    |
| <p>style (Shape Styling Properties)</p> | <p>Specifies the CSS2 styling properties of the shape. The CSS2 (Cascading Style Sheets, Level 2) specification, a Recommendation of the World Wide Web Consortium, is available here: <a href="http://www.w3.org/TR/REC-CSS2">http://www.w3.org/TR/REC-CSS2</a>.</p> <p>This attribute uses a semi-colon delimited list of “name:value” pairs, the syntax defined by section 4.1.8 of the CSS2 specification for grouped declarations (without the surrounding braces). The following tables define the allowed properties and the VML treatment of each.</p> <p>[Example:<br/> <code>&lt;v:shape ... style='position:absolute;width:100pt;height:50pt' ...</code><br/> <code>&gt;</code><br/> <code>&lt;/v:shape&gt;</code><br/> <i>end example]</i></p> <table border="1"> <thead> <tr> <th>Property</th><th>Description</th></tr> </thead> <tbody> <tr> <td>flip</td><td> <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul> </td></tr> <tr> <td>height</td><td> <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> </td></tr> <tr> <td>left</td><td> <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> </td></tr> </tbody> </table> | Property | Description | flip | <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul> | height | <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> | left | <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> |
| Property                                | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                    |
| flip                                    | <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                    |
| height                                  | <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                    |
| left                                    | <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                    |

| Attributes | Description   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |               | <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>                                                                                                                                                                                                                                                            |
|            | margin-bottom | <p>Specifies the position of the bottom of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> |
|            | margin-left   | <p>Specifies the position of the left of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>    |
|            | margin-right  | <p>Specifies the position of the right of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>  |

| Attributes | Description                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | margin-top                       | <p>Specifies the position of the top of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> |
|            | mso-position-horizontal          | <p>Specifies the horizontal positioning data for objects in WordprocessingML documents. Default is absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• absolute</li> <li>• left</li> <li>• center</li> <li>• right</li> <li>• inside</li> <li>• outside</li> </ul>                                                                                                                                                                                                                                                                                                                                                                           |
|            | mso-position-horizontal-relative | <p>Specifies relative horizontal position data for objects in WordprocessingML documents. This modifies the mso-position-horizontal property. Default is text. Allowed values are:</p> <ul style="list-style-type: none"> <li>• margin</li> <li>• page</li> <li>• text</li> <li>• char</li> </ul>                                                                                                                                                                                                                                                                                                                                                                   |
|            | mso-position-vertical            | <p>Specifies the vertical positioning data for objects in WordprocessingML documents. Default is absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• absolute</li> <li>• top</li> <li>• center</li> <li>• bottom</li> <li>• inside</li> <li>• outside</li> </ul>                                                                                                                                                                                                                                                                                                                                                                             |

| Attributes                     | Description                                                                                                                                                                                                                                                                                   |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| mso-position-vertical-relative | <p>Specifies relative vertical position data for objects in WordprocessingML documents. This modifies the mso-position-vertical property. Default is text. Allowed values are:</p> <ul style="list-style-type: none"> <li>• margin</li> <li>• page</li> <li>• text</li> <li>• line</li> </ul> |
| mso-wrap-distance-bottom       | <p>Specifies the distance from the bottom of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>           |
| mso-wrap-distance-left         | <p>Specifies the distance from the left side of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>        |
| mso-wrap-distance-right        | <p>Specifies the distance from the right side of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>       |
| mso-wrap-distance-top          | <p>Specifies the distance from the top of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>              |
| mso-wrap-edited                | <p>Specifies whether the wrap coordinates were customized by the user. If the wrap coordinates are generated by an editor, this property is true; otherwise they were customized by a user. Default is false.</p>                                                                             |
| mso-wrap-style                 | <p>Specifies the wrapping mode for text in shapes in WordprocessingML documents. Default is square. Allowed values are:</p> <ul style="list-style-type: none"> <li>• square - Wraps text inside the shape in a square.</li> <li>• none - Text does not wrap.</li> </ul>                       |
| position                       | <p>Specifies the kind of positioning used to place an element. Default is static. When the element is contained inside a group, this property shall be absolute. Allowed values are:</p>                                                                                                      |



| Attributes | Description |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |             | <ul style="list-style-type: none"> <li>• <b>static</b> - The element is positioned according to the normal flow of the page. The top and left properties are ignored. If the object is anchored inline, this value is used.</li> <li>• <b>absolute</b> - The element is positioned relative to the parent, using the top and left properties.</li> <li>• <b>relative</b> - The element is positioned according to the normal flow of the page, but the top and left properties are used. The overlap of overlapping elements is governed by the z-index property.</li> </ul>                                                                                                                                                                                                       |
|            | rotation    | Specifies the angle that a shape is rotated, in degrees. Default is 0. Positive angles are clockwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|            | top         | <p>Specifies the position of the top of the containing block of the shape relative to the element above it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• <b>auto</b> - Default position of an element in the flow of the page.</li> <li>• <b>&lt;units&gt;</b> - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• <b>&lt;percentage&gt;</b> - Value expressed as a percentage of the parent object's height.</li> </ul> |
|            | visibility  | <p>Specifies whether a shape is displayed. Only inherit and hidden are used; any other values are mapped to inherit. Default is inherit. Allowed values are:</p> <ul style="list-style-type: none"> <li>• <b>hidden</b> - The shape is not visible, but is still part of the flow of the objects in the browser. Mouse events are not processed.</li> <li>• <b>inherit</b> - The visibility state is inherited from the parent of the shape.</li> </ul>                                                                                                                                                                                                                                                                                                                            |
|            | width       | <p>Specifies the width of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• <b>auto</b> - Default position of an element in the flow of the page.</li> <li>• <b>&lt;units&gt;</b> - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> </ul>                                                                                                                                                                                                                                          |

| Attributes                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                         | <ul style="list-style-type: none"> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>                                                                                                                                                                                                                                                                                                                                    |
|                                                                             | z-index                                                                                                                                                                                                                                                                                                                                                                                                                 | <p>Specifies the display order of overlapping shapes. Default is 0. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Uses the order that the shapes appear in the page, bottom to top.</li> <li>• &lt;order&gt;- A number that represents the stacking precedence. Shapes with higher numbers are placed on top of those with lower numbers. Negative numbers are allowed.</li> </ul> |
| The following properties are only used by the textbox element (§19.1.2.22): |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Property                                                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| direction                                                                   | <p>Specifies the direction of the text in the textbox. Default is ltr. This property is superceded by the mso-direction-alt property if that is specified. Allowed values are:</p> <ul style="list-style-type: none"> <li>• ltr - Text is displayed left-to-right.</li> <li>• rtl - Text is displayed right-to-left.</li> </ul>                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| layout-flow                                                                 | <p>Determines the flow of the text layout in a textbox. Default is horizontal. Allowed values are:</p> <ul style="list-style-type: none"> <li>• horizontal - Text is displayed horizontally.</li> <li>• vertical - Text is displayed vertically.</li> <li>• vertical-ideographic - Ideographic text is displayed vertically.</li> <li>• horizontal-ideographic - Ideographic text is displayed horizontally.</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| mso-direction-alt                                                           | <p>Specifies an alternate direction for text in textboxes. Overrides the direction property. The only allowed value is context.</p>                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| mso-fit-shape-to-text                                                       | <p>Specifies whether the shape stretches to fit the text in the textbox. Default is false.</p>                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| mso-fit-text-to-shape                                                       | <p>Specifies whether the text stretches to fit the textbox. Default is false.</p>                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| mso-layout-                                                                 | <p>Specifies the alternate layout flow for text in textboxes. This</p>                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| Attributes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Description                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | flow-alt                                                                                                                                                                                                                                            | property is used instead of layout-flow when the layout flow is from bottom to top for non-ideographic languages. Its only value is bottom-to-top.                                                                                                                                                                                                                                                                                                                                                                                                                       |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | mso-next-textbox                                                                                                                                                                                                                                    | Specifies the ID of the next textbox in a series. Used to keep track of a set of linked textboxes. Default is no value.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | mso-rotate                                                                                                                                                                                                                                          | Specifies a specific rotation value for text in a textbox. Default is 0. Allowed values are: <ul style="list-style-type: none"><li>• 0</li><li>• 90</li><li>• 180</li><li>• -90</li></ul>                                                                                                                                                                                                                                                                                                                                                                                |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | mso-text-scale                                                                                                                                                                                                                                      | Specifies the scaling factor for fitting text to shapes. Default is 0. This property is only used if mso-fit-text-to-shape is true.                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | v-text-anchor                                                                                                                                                                                                                                       | Specifies the vertical anchoring of text in a textbox. Default is top. The alignment of a text anchor only becomes evident if mso-fit-text-to-shape is false. This property is different from the vertical-align CSS property, which is used for ideographic languages. Allowed values are: <ul style="list-style-type: none"><li>• top</li><li>• middle</li><li>• bottom</li><li>• top-center</li><li>• middle-center</li><li>• bottom-center</li><li>• top-baseline</li><li>• bottom-baseline</li><li>• top-center-baseline</li><li>• bottom-center-baseline</li></ul> |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |
| The following properties are only used by the textpath element (§19.1.2.23):                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |
| <table><tr><th>Property</th><th>Description</th></tr><tr><td>font</td><td>Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family.</td></tr><tr><td>font-family</td><td>Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property.</td></tr></table> |                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Property | Description | font | Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family. | font-family | Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property. |
| Property                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Description                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |
| font                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |
| font-family                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property.                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |

| Attributes | Description                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|--------|----------------------|---------|-----|-----|-----|-----|------|------------------|--------|-----|-----|-----|-----|-----|
|            | font-size                                                         | Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|            | font-style                                                        | Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are: <ul style="list-style-type: none"><li>normal</li><li>italic</li><li>oblique - Treated the same as italic.</li></ul>                                                                                                                                                                                                                                                                                                                                                           |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|            | font-variant                                                      | Specifies the variant style of a font. Default is normal. The values are the same as those of the CSS font-variant property. Allowed values are: <ul style="list-style-type: none"><li>normal</li><li>small-caps</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|            | font-weight                                                       | Specifies the thickness of the letters of the font. Default is normal. The values are the same as those of the CSS font-weight property. Allowed values are: <table><thead><tr><th>Value</th><th>Description</th></tr></thead><tbody><tr><td>normal</td><td rowspan="6">Treated as non-bold.</td></tr><tr><td>lighter</td></tr><tr><td>100</td></tr><tr><td>200</td></tr><tr><td>300</td></tr><tr><td>400</td></tr><tr><td>bold</td><td rowspan="7">Treated as bold.</td></tr><tr><td>bolder</td></tr><tr><td>500</td></tr><tr><td>600</td></tr><tr><td>700</td></tr><tr><td>800</td></tr><tr><td>900</td></tr></tbody></table> | Value | Description | normal | Treated as non-bold. | lighter | 100 | 200 | 300 | 400 | bold | Treated as bold. | bolder | 500 | 600 | 700 | 800 | 900 |
|            | Value                                                             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| normal     | Treated as non-bold.                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| lighter    |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 100        |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 200        |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 300        |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 400        |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| bold       | Treated as bold.                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| bolder     |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 500        |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 600        |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 700        |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 800        |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 900        |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| mso-text-  | Specifies whether a shadow is applied to the text on a text path. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |

| Attributes | Description           |                                                                                                                                                                                                                                                                                                                                                                                        |
|------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | shadow                | Default is false.                                                                                                                                                                                                                                                                                                                                                                      |
|            | text-decoration       | <p>Specifies the style of text decoration. Default is none. The values are the same as those of the CSS text-decoration property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• none</li> <li>• underline</li> <li>• overline</li> <li>• line-through</li> <li>• blink</li> </ul>                                                                                   |
|            | v-rotate-letters      | Specifies whether the letters of the text are rotated counterclockwise by 90 degrees. Default is false.                                                                                                                                                                                                                                                                                |
|            | v-same-letter-heights | Specifies whether all letters are the same height regardless of initial case. If true, the lowercase letters are stretched to the height of the uppercase letters. Default is false.                                                                                                                                                                                                   |
|            | v-text-align          | <p>Specifies the alignment of text. Default is left. Allowed values are:</p> <ul style="list-style-type: none"> <li>• left</li> <li>• right</li> <li>• center</li> <li>• justify</li> <li>• letter-justify - Distributes the extra space between the letters.</li> <li>• stretch-justify - Stretches the letters to fill in the space.</li> </ul>                                      |
|            | v-text-kern           | Specifies whether kerning is turned on. Default is false.                                                                                                                                                                                                                                                                                                                              |
|            | v-text-reverse        | Specifies whether the layout order of rows is reversed. Default is false. This is used for vertical text layout.                                                                                                                                                                                                                                                                       |
|            | v-text-spacing-mode   | <p>Specifies the mode for letter spacing. Default is tightening. This property determines whether space is removed between each letter (tightening) or added between each letter (tracking). The amount of letter spacing change is defined by the v-text-spacing property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• tightening</li> <li>• tracking</li> </ul> |
|            | v-text-spacing        | Specifies the amount of spacing for text in 100ths of single line spacing. Default is 100.                                                                                                                                                                                                                                                                                             |

| Attributes                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|--------------|----------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------|
|                                   | <p>The line (§19.1.2.12), polyline (§19.1.2.15) and curve (§19.1.2.3) elements ignore the following properties:</p> <ul style="list-style-type: none"> <li>• top</li> <li>• left</li> <li>• width</li> <li>• height</li> </ul> <p>The following properties are not inherited by an element that references a shapetype element (§19.1.2.20) via the id attribute:</p> <ul style="list-style-type: none"> <li>• flip</li> <li>• height</li> <li>• left</li> <li>• margin-left</li> <li>• margin-top</li> <li>• position</li> <li>• rotation</li> <li>• top</li> <li>• visibility</li> <li>• width</li> <li>• z-index</li> </ul> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                        |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |
| target (Hyperlink Display Target) | <p>Specifies a frame or window that a URL is displayed in. Default is no value. Allowed values are:</p> <table border="1"> <thead> <tr> <th>Value</th><th>Description</th></tr> </thead> <tbody> <tr> <td>&lt;targetname&gt;</td><td>String containing the name of the frame or window in which to load the document.</td></tr> <tr> <td>_blank</td><td>Specifies that the linked document is loaded into a new blank window. This window is not named.</td></tr> <tr> <td>_media</td><td>Specifies that the linked document is loaded into the browser's multimedia pane.</td></tr> <tr> <td>_parent</td><td>Specifies that the linked document is loaded into the immediate parent of the document containing the link.</td></tr> <tr> <td>_search</td><td>Specifies that the linked document is loaded into the browser's search pane.</td></tr> <tr> <td>_self</td><td>Specifies that the linked document is loaded into the window in which the link was clicked (the active window).</td></tr> </tbody> </table> | Value | Description | <targetname> | String containing the name of the frame or window in which to load the document. | _blank | Specifies that the linked document is loaded into a new blank window. This window is not named. | _media | Specifies that the linked document is loaded into the browser's multimedia pane. | _parent | Specifies that the linked document is loaded into the immediate parent of the document containing the link. | _search | Specifies that the linked document is loaded into the browser's search pane. | _self | Specifies that the linked document is loaded into the window in which the link was clicked (the active window). |
| Value                             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |
| <targetname>                      | String containing the name of the frame or window in which to load the document.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |
| _blank                            | Specifies that the linked document is loaded into a new blank window. This window is not named.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |
| _media                            | Specifies that the linked document is loaded into the browser's multimedia pane.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |
| _parent                           | Specifies that the linked document is loaded into the immediate parent of the document containing the link.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |
| _search                           | Specifies that the linked document is loaded into the browser's search pane.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |
| _self                             | Specifies that the linked document is loaded into the window in which the link was clicked (the active window).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |

| Attributes                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                                                                       |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------|
|                             | <table border="1" data-bbox="415 247 1469 331"> <tr> <td data-bbox="415 247 626 331"><code>_top</code></td><td data-bbox="626 247 1469 331">Specifies that the linked document is loaded into the topmost window.</td></tr> </table> <p data-bbox="415 373 535 405">[Example:</p> <pre data-bbox="456 443 1062 573"> &lt;v:shape ...   href="http://www.openxmlformats.org"   target="_self" ... &gt; &lt;/v:shape&gt; </pre> <p data-bbox="415 615 578 646">end example]</p> <p data-bbox="415 688 1377 751">The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                             | <code>_top</code> | Specifies that the linked document is loaded into the topmost window. |
| <code>_top</code>           | Specifies that the linked document is loaded into the topmost window.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |                                                                       |
| title (Shape Title)         | <p data-bbox="415 772 1469 835">Specifies the text displayed when the mouse pointer moves over the shape. Default is no value.</p> <p data-bbox="415 877 535 909">[Example:</p> <pre data-bbox="456 947 930 1010"> &lt;v:shape ... title="tooltip" ... &gt; &lt;/v:shape&gt; </pre> <p data-bbox="415 1052 578 1083">end example]</p> <p data-bbox="415 1125 1377 1188">The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                   |                   |                                                                       |
| type (Shape Type Reference) | <p data-bbox="415 1213 1453 1308">Specifies a reference to a shapetype ID that describes the standard path, fill and stroke properties of a shape. Properties specified in the shape override the shapetype properties. Default is no value.</p> <p data-bbox="415 1350 1453 1413">[Example: The following example defines a shapetype that is a simple rectangle and an actual shape instance that uses it and overrides the fill color.</p> <pre data-bbox="456 1455 1385 1791"> &lt;v:shapetype id="mytype"   fillcolor="red" strokecolor="blue"   coordorigin="0 0" coordsize="200 200"   path="m 0,0 l 0,200, 200,200, 200,0 x e"/&gt; &lt;/v:shapetype&gt;  &lt;v:shape id="shape02" type="#mytype"   fillcolor="green"   style="position:relative;top:1;left:1;width:20;height:20"&gt; &lt;/v:shape&gt; </pre> <p data-bbox="415 1833 578 1864">end example]</p> |                   |                                                                       |

| Attributes                                                                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                         | The possible values for this attribute are defined by the W3C XML Schema string datatype.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <p>userdrawn (Exists In Master Slide)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether the user has added the shape to a master slide. Default is false. Used by PresentationML.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:userdrawn="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                           |
| <p>userhidden (Hide Script Anchors)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>   | <p>Specifies whether a script anchor is hidden. Default is false. If true, script anchors stay hidden even if the shape is otherwise visible. A script anchor is the visual representation of a script that when displayed in an application.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:userhidden="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                           |
| <p>wrapcoords (Shape Bounding Polygon)</p>                                                              | <p>Specifies the bounding polygon that surrounds a shape. This is specified using a comma-delimited list of x and y coordinates: "x1,y1,x2,y2,x3,y3,..." This is used when text is tightly wrapped around a shape. Default is no value until the mso-wrap-mode style attribute is set to tight or through.</p> <p>[Example:</p> <pre>&lt;v:shape ... wrapcoords="0,0 0,200, 200,200, 200,0" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |



[Note: The W3C XML Schema definition of this element's content model ([CT\\_Shape](#)) is located in §A.6.1. *end note*]

### 19.1.2.20 shapetype (Shape Template)

This element defines a shape template that can be used to create other shapes. Shapetype is identical to the shape element (§19.1.2.19) except it cannot reference another shapetype element. The type attribute shall not be used with shapetype. Attributes defined in the shape override any that appear in the shapetype. CSS positioning attributes (such as top, width, z-index, rotation, flip) are not passed to a shape from a shapetype. To use this element, create a shapetype with a specific id attribute. Then create a shape and reference the shapetype's id using the type attribute.

[Example:

```
<v:shapetype id="mytype" fillcolor="silver" strokecolor="blue">
  <v:path v="m 0,0 l 0,1000, 1000,1000, 1000,0 x e"/>
  <v:fill on="true" type="gradient" color2="navy" angle="-45"/>
</v:shapetype>
<v:shape type="#mytype"
  style="position:absolute;top:10;left:10;width:50;height:50"/>
<v:shape type="#mytype" fillcolor="teal"
  style="position:absolute;top:10;left:75;width:75;height:50"/>
<v:shape type="#mytype"
  style="position:absolute;top:10;left:165;width:50;height:50">
  <v:fill type="solid"/>
</v:shape>
<v:shape type="#mytype" path="m 500,0 l 1000,1000 0,1000 x e"
  style="position:absolute;top:10;left:230;width:50;height:50"/>
```



*end example]*

#### Parent Elements

background (Part 1, §17.2.1); group (§19.1.2.7); object (Part 1, §17.3.3.19); pict (§14.2.2.2); pict (§14.5.1)

#### Child Elements

#### Subclause

anchorlock (Anchor Location Is Locked)

§19.3.2.1

borderbottom (Bottom Border)

§19.3.2.2

borderleft (Left Border)

§19.3.2.3

borderright (Right Border)

§19.3.2.4

| Child Elements                         | Subclause  |
|----------------------------------------|------------|
| bordertop (Top Border)                 | §19.3.2.5  |
| callout (Callout)                      | §19.2.2.2  |
| ClientData (Attached Object Data)      | §19.4.2.12 |
| clippath (Shape Clipping Path)         | §19.2.2.3  |
| complex (Complex)                      | §19.2.2.7  |
| extrusion (3D Extrusion)               | §19.2.2.11 |
| fill (Shape Fill Properties)           | §19.1.2.5  |
| formulas (Set of Formulas)             | §19.1.2.6  |
| handles (Set of Handles)               | §19.1.2.9  |
| imagedata (Image Data)                 | §19.1.2.11 |
| lock (Shape Protections)               | §19.2.2.18 |
| path (Shape Path)                      | §19.1.2.14 |
| shadow (Shadow Effect)                 | §19.1.2.18 |
| signatureline (Digital Signature Line) | §19.2.2.30 |
| skew (Skew Transform)                  | §19.2.2.31 |
| stroke (Line Stroke Settings)          | §19.1.2.21 |
| textbox (Text Box)                     | §19.1.2.22 |
| textdata (VML Diagram Text)            | §19.5.2.2  |
| textpath (Text Layout Path)            | §19.1.2.23 |
| wrap (Text Wrapping)                   | §19.3.2.6  |

| Attributes                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| adj (Adjustment Parameters) | <p>Specifies a comma-delimited list of parameters, or adjustment values, used to define values for a parameterized formula. Values can be omitted. There can be up to 8 adjust values. Each value is referenced using # followed by a number corresponding to the zero-based index for that value in the list of adjustment values. [Example: For example, #2 references the second value in the adj list. end example]</p> <p>[Example: The following shape uses formulas to define a simple rectangle. The adj values are referenced by the eqn attribute of the f element (§19.1.2.4) and in turn referenced by the path element (§19.1.2.14).</p> <pre>&lt;v:shape   coordorigin="0 0" coordsize="200 200"   style="position:relative;top:30;left:30;width:20;height:20"   adj="1, 1, 1, 200, 200, 200, 200, 1"&gt;   &lt;v:path v="m @0,@1 l @2,@3, @4,@5, @6,@7 x e"/&gt;   &lt;v:formulas&gt;</pre> |

| Attributes                                                                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                         | <pre> &lt;v:f eqn="val #0"/&gt; &lt;v:f eqn="val #1"/&gt; &lt;v:f eqn="val #2"/&gt; &lt;v:f eqn="val #3"/&gt; &lt;v:f eqn="val #4"/&gt; &lt;v:f eqn="val #5"/&gt; &lt;v:f eqn="val #6"/&gt; &lt;v:f eqn="val #7"/&gt; &lt;/v:formulas&gt; &lt;/v:shape&gt; </pre> <p>This is the equivalent of:</p> <pre> &lt;v:shape   coordorigin="0 0" coordsize="200 200"   style="position:relative;top:30;left:30;width:20;height:20"   path="m 1,1 l 1,200, 200,200, 200,1 x e"&gt; &lt;/v:shape&gt; </pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <p>allowincell (Allow in Table Cell)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>  | <p>Specifies whether a shape can be placed in a table. Default is false.</p> <p>[Example:</p> <pre> &lt;v:shape ... o:allowincell="true" ... &gt; &lt;/v:shape&gt; </pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                    |
| <p>allowoverlap (Allow Shape Overlap)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether a shape can overlap another shape. Default is true. If false, the shape shifts left or right so as not to overlap another shape, similar to the behavior of the HTML float attribute.</p> <p>[Example:</p> <pre> &lt;v:shape ... o:allowoverlap="false" ... &gt; &lt;/v:shape&gt; </pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type</p>                                                                                                                                                                                             |

| Attributes                                                                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                         | (§20.1.2.5).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| alt (Alternate Text)                                                                                    | <p>Specifies alternative text describing the graphical object. This text should provide a brief description of the shape for use by accessibility tools. Default is no value.</p> <p>[Example: The alt text describes the basic shape:</p> <pre>&lt;v:shape ... fillcolor="red"   alt="Red rectangle"&gt; &lt;/v:shape&gt;</pre> <p>The alt text describes the contents of a shape displaying an image:</p> <pre>&lt;v:shape ... alt="Picture of a sunset"&gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| borderbottomcolor<br>(Bottom Border Color)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies the bottom border color of an inline shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:borderbottomcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                     |
| borderleftcolor<br>(Border Left Color)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office     | <p>Specifies the left border color of an inline shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:borderleftcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                         |
| borderrightcolor<br>(Border Right Color)<br><br>Namespace:                                              | <p>Specifies the right border color of an inline shape. Default is no value.</p> <p>[Example:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| Attributes                                                                                            | Description                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| urn:schemas-microsoft-com:office:office                                                               | <pre>&lt;v:shape ... o:borderrightcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                          |
| <b>bordercolor</b><br>(Border Top Color)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies the top border color of an inline shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:bordercolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                               |
| <b>bullet</b> (Graphical Bullet)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office         | <p>Specifies whether the shape is a graphical bullet. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:bullet="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                |
| <b>button</b> (Button Behavior Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office   | <p>Specifies whether a shape exhibits button press behavior on click. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:button="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                |
| <b>bwmode</b> (Black-and-White Mode)<br><br>Namespace:<br>urn:schemas-                                | <p>Specifies how a shape renders for black-and-white output devices. When a shape is printed on a black-and-white printer or displayed in a black-and-white view in an application, several options are possible. Default is auto, which uses o:bwnormal for normal black-and-white rendering and o:bwpure for pure black-and-white rendering.</p> |

| Attributes                                                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| microsoft-com:office:office                                                                         | <p>bwnormal and bwpure are subordinate to bwmode. If bwmode is "auto" then the value for bwnormal or bwpure is used depending on what the output format is. An application can define for itself what, if any, difference there is between normal B&amp;W and pure B&amp;W. <i>[Example: Normal B&amp;W might allow greyscale and pure B&amp;W might not. end example]</i></p> <p><i>[Example: This shape renders in grayscale in a black-and-white environment:</i></p> <pre>&lt;v:shape ... o:bwmode="grayscale" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3).</p> |
| bwnormal (Normal Black-and-White Mode)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies the black-and-white mode for normal black-and-white output devices. Default is auto.</p> <p><i>[Example: This shape renders in a pale grayscale in a normal black-and-white environment:</i></p> <pre>&lt;v:shape ... o:bwmode="auto" o:bwnormal="lightgrayscale" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3).</p>                                                                                                                                                                                                                                     |
| bwpure (Pure Black-and-White Mode)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office     | <p>Specifies the black-and-white mode for pure black-and-white output devices. Default is auto.</p> <p><i>[Example: This shape renders in high contrast when in a pure black-and-white environment:</i></p> <pre>&lt;v:shape ... o:bwmode="auto" o:bpure="highcontrast" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_BWMode simple type (§19.2.3.3).</p>                                                                                                                                                                                                                                            |
| chromakey (Image Transparency Color)                                                                | <p>Specifies a color value that is transparent and show anything behind the shape. Default is no value.</p> <p><i>[Example:</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

| Attributes                                                                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                    | <pre>&lt;v:image ... chromakey="white" ...&gt; &lt;/v:image&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p>                                                                                                                                                                                                                                                                                               |
| class (CSS Reference)                                                                              | <p>Specifies a reference to the definition of a CSS style. Default is no value.</p> <p>[Example: The snippets below are equivalent:</p> <pre>... .narrowstyle {width:50;height:100} ... &lt;v:shape ... class="narrowstyle"   style="top:1;left:1"&gt; &lt;/v:shape&gt;</pre> <pre>&lt;v:shape ... style="top:1;left:1;   width:50;height:100"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| clip (Clipping Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office                | <p>Specifies that the clipping region is active. This is used in conjunction with the clippath (§19.2.2.3) element to create a clipping region.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:clip="true"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                  |
| cliptowrap (Clip to Wrapping Polygon)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies that the clipping region for the shape aligns with the wrapping polygon that tightly surrounds the entire shape (essentially, that the shape shall not be drawn beyond its wrapping polygon's extents – if it does, the shape shall be clipped). Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:cliptowrap="true"&gt;</pre>                                                                                                                                               |

| Attributes                                                                                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                               | <p><code>&lt;/v:shape&gt;</code></p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <p>connectortype<br/>(Shape Connector Type)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies the kind of connector used for joining shapes. Default is straight.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:connectortype="elbow" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ConnectorType simple type (§19.2.3.7).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p>coordorigin<br/>(Coordinate Space Origin)</p>                                                              | <p>Specifies the coordinate of the top left corner of the shape's coordinate space. This determines the position of the (0,0) coordinate space origin within the shape's bounding box. Default is "0,0", which places the (0,0) origin at the top left corner of the bounding box.</p> <p>This affects shape properties that specify coordinate positions, such as the path attribute. Thus a path can be defined against a generic (0,0) origin and the coordorigin value translates the entire path within the shape's bounding space.</p> <p>[Example: The horizontal and vertical coordinate space ranges from -100 to +100 because the coordinate space (coordsize) is 200 by 200 and the top left coordinate is (-100,-100). The (0,0) origin lies at the center of the shape's bounding box, as evidenced by the position of the shape's path within the coordinate space:</p> <pre>&lt;v:shape ... coordsize="200,200" coordorigin="-100,-100" path="m 0,0 l 0,50, 50,50, 50,0 x e"&gt; &lt;/v:shape&gt;</pre> <div data-bbox="415 1541 516 1642"> </div> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <p>coordsize</p>                                                                                              | <p>Specifies the size of the shape's coordinate space in coordinate units. Default is</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |



| Attributes                                                                                                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (Coordinate Space Size)                                                                                              | <p>"1000,1000".</p> <p>The physical size of a coordinate unit length is determined by both the size of the coordinate space (coordsize) and the size of the shape (style width and height). The coordsize attribute defines the number of horizontal and vertical subdivisions into which the shape's bounding box is divided. The combination of coordsize and style width/height effective scales the shape anisotropically.</p> <p>[Example: The path is 50 units wide and tall, which is 25% of the size of the coordinate space:</p> <pre>&lt;v:shape ... coordsize="200,200"   coordorigin="-100,-100"   path="m 0,0 1 0,50, 50,50, 50,0 x e"&gt; &lt;/v:shape&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| dgmlayout<br>(Diagram Node Layout Identifier)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office           | <p>Specifies the kind of automatic layout to apply to the diagram node. This is only meaningful if the shape is a node in an organization chart, which is denoted by the orgchart value of the editas attribute of the group element.</p> <p>[Example:</p> <pre>&lt;v:shape ... dgmlayout="1"&gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_DiagramLayout simple type (§19.2.3.10).</p>                                                                                                                                                                                                                                                                                                                                                                                                                              |
| dgmlayoutmru<br>(Diagram Node Recent Layout Identifier)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies the kind of automatic layout most recently used on the child elements of the diagram node. This is only meaningful if the shape is a node in an organization chart, which is denoted by the orgchart value of the editas attribute of the group element.</p> <p>[Example:</p> <pre>&lt;v:shape ... dgmlayout="1"&gt; &lt;/v:shape&gt;</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

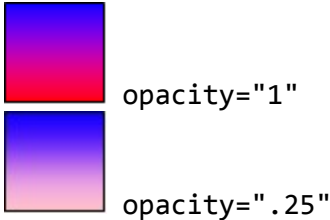
| Attributes                                                                                                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                               | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_DiagramLayout simple type (§19.2.3.10).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <p>dgmnodekind<br/>(Diagram Node Identifier)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>                | <p>Specifies an optional, application-defined parameter that is intended to be used by the application to tag different types of nodes in a diagram.</p> <p>[Example:</p> <pre>&lt;v:shape ... dgmnodekind="1"&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema integer datatype.</p>                                                                                                                                                                                                                                                                                     |
| <p>doubleclicknotify<br/>(Double-click Notification Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies that an event message is sent when a shape is double-clicked. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:doubleclicknotify="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                        |
| <p>fillcolor (Fill Color)</p>                                                                                                 | <p>Specifies the color to use for the fill. Default is white. If the fill element (§19.1.2.5) is present, its color attribute takes precedence. Colors are typically specified as either a named color, such as red, or six hexadecimal digits representing the red, green and blue values of the color, such as #00FF30. Full details are specified in the simple type description.</p> <p>[Example: This shape is red if its fill is visible:</p> <pre>&lt;v:shape ... fillcolor="red" ... &gt; &lt;/v:shape&gt;</pre> <p>This is equivalent to:</p> <pre>&lt;v:shape ... fillcolor="#ff0000" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> |

| Attributes                                                                                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                      | The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).                                                                                                                                                                                                                                                                                                                                                              |
| <b>filled (Shape Fill Toggle)</b><br><br>Namespace:<br>urn:schemas-microsoft-com:office:office       | <p>Specifies whether the closed path is filled. Default is true. This attribute is overridden by the fill on attribute.</p> <p>[Example:</p> <pre>&lt;v:shape ... filled="f"   fillcolor="red" ...&gt; &lt;/v:shape&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                   |
| <b>forcedash (Force Dashed Outline)</b><br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies whether a dashed outline is used to draw a shape when a shape has no line or fill. Default is false.</p> <p>Used by PresentationML placeholders to draw a dashed outline when there is no line and no fill for a shape.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:forcedash="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <b>hr (Horizontal Rule Toggle)</b><br><br>Namespace:<br>urn:schemas-microsoft-com:office:office      | <p>Specifies that a shape is a horizontal rule. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hr="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                           |

| Attributes                                                                                                        | Description                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>hralign</b> (Horizontal Rule Alignment)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office           | <p>Specifies the alignment of a horizontal rule. Default is left.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hralign="center" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_HrAlign simple type (§19.2.3.16).</p>                    |
| <b>href</b> (Hyperlink Target)                                                                                    | <p>Specifies a hyperlink URL target for the shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... href="http://www.openxmlformats.org" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <b>hrnoshade</b> (Horizontal Rule 3D Shading Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies that the horizontal rule does not have 3-D shading. Default is false.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hrnoshade="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>  |
| <b>hrpct</b> (Horizontal Rule Length Percentage)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office     | <p>Specifies the length of a horizontal rule as a percentage of page width. Default is 0.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:hrpct="85" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema float datatype.</p>        |
| <b>hrstd</b> (Horizontal Rule Standard)                                                                           | <p>Specifies whether a shape is displayed as a standard horizontal rule. Only applies if hr is true. Default is false.</p>                                                                                                                                                                                  |

| Attributes                                                                                       | Description                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Display Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>             | <p>[Example:</p> <pre>&lt;v:shape ... o:hrstd="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                              |
| <p>id (Unique Identifier)</p>                                                                    | <p>Specifies a unique identifier that can be used to reference a VML object.</p> <p>Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... id="myShape" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                         |
| <p>insetmode (Text Inset Mode)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether the application calculates the internal text margin instead of using the inset attribute. Default is custom. This attribute is only meaningful for text boxes.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:insetmode="auto" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_InsetMode simple type (§19.2.3.17).</p> |
| <p>insetpen (Inset Border From Path)</p>                                                         | <p>Specifies that the border shall be displayed inside of the path defining the shape, rather than along the path (the default border placement), or outside of the path as might be done with an image.</p> <p>[Example:</p> <pre>&lt;v:shape ... insetpen="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p>                                                                                       |

| Attributes                                                                                                | Description                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                           | The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).                                                                                                                                                                                                                                                                                                                                                   |
| <b>master (Master Element Toggle)</b><br><br>Namespace:<br>urn:schemas-microsoft-com:office:office        | Specifies whether the shapetype is a master element. If true, it is rendered by the rendering engine. Default is false.<br><br>The possible values for this attribute are defined by the W3C XML Schema string datatype.                                                                                                                                                                                                                          |
| <b>ole (Embedded Object Toggle)</b><br><br>Namespace:<br>urn:schemas-microsoft-com:office:office          | Specifies whether the shape is an embedded object. Default is false.<br><br><i>[Example:</i><br><pre>&lt;v:shape ... o:ole="true" ... &gt; &lt;/v:shape&gt;</pre> <i>end example]</i><br><br>The possible values for this attribute are defined by the ST_TrueFalseBlank simple type (§20.1.2.6).                                                                                                                                                 |
| <b>oleicon (Embedded Object Icon Toggle)</b><br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | Specifies whether an embedded object is displayed as an icon. Default is false.<br><br><i>[Example:</i><br><pre>&lt;v:shape ... o:oleicon="true" ... &gt; &lt;/v:shape&gt;</pre> <i>end example]</i><br><br>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).                                                                                                                                       |
| <b>oned (Shape Handle Toggle)</b><br><br>Namespace:<br>urn:schemas-microsoft-com:office:office            | Specifies whether the extra handles of a shape are hidden. If true, hides all shape handles except the top left and bottom right; that is, the same handles that are used for a straight line segment. Default is false.<br><br><i>[Example:</i><br><pre>&lt;v:shape ... o:oned="true" ... &gt; &lt;/v:shape&gt;</pre> <i>end example]</i><br><br>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5). |

| Attributes                                                                                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| opacity (Fill Color Opacity)                                                                         | <p>Specifies the opacity of the primary fill color. Default is 1.0. This numeric value can also be specified in 1/65536-ths if a trailing "f" is supplied. <i>[Example: A value of "52429f" represents 52429/65536 or 0.8. end example]</i></p> <p><i>[Example: The red color is 25% opaque:</i></p> <pre>&lt;v:fill type="gradient" color="red"   color2="blue" opacity=".25"&gt; &lt;/v:fill&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| path (Edge Path)                                                                                     | <p>Specifies the line that makes up the edges of a shape. See the v attribute of the path element (§19.1.2.14) for a full description.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                            |
| preferrelative (Relative Resize Toggle)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies whether the original size of an object is saved after reformatting. Default is false. If true, the original size of the object is stored and all resizing is based on a percentage of that original size. Otherwise, each resizing resets the scale to 100%.</p> <p><i>[Example:</i></p> <pre>&lt;v:shape ... o:preferrelative="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                   |
| print (Print Toggle)                                                                                 | <p>Specifies whether the shape is printed. Default is true.</p> <p><i>[Example:</i></p> <pre>&lt;v:shape ... print="false" ... &gt; &lt;/v:shape&gt;</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| Attributes                                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                             | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <p>regroupid (Regroup ID)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies a previous group for a shape. An ID number is used to identify groups of shapes that are no longer grouped. This allows shapes to be regrouped programmatically.</p> <p>[Example: The shape was part of a group identified by the ID 040754:</p> <pre>&lt;v:shape ... o:regroupid="040754" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema integer datatype.</p>                                                                                                                             |
| <p>spid (Optional String)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies an optional string that an application can use to identify the particular shape. Default is no value.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                          |
| <p>spt (Optional Number)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>  | <p>Specifies an optional number that an application can use to associate the particular shape with a defined shape type. Default is 0.</p> <p>The possible values for this attribute are defined by the W3C XML Schema float datatype.</p>                                                                                                                                                                                                                                                                                                                                                       |
| <p>strokecolor (Shape Stroke Color)</p>                                                     | <p>Specifies the primary color of the brush to use to stroke the path of the shape. Default is black. The color attribute of the stroke element (§19.1.2.21) overrides this. Colors are typically specified as either a named color, such as red, or six hexadecimal digits representing the red, green and blue values of the color, such as #00FF30. Full details are specified in the simple type description.</p> <p>[Example:</p> <pre>&lt;v:shape ... strokecolor="red" ...&gt; &lt;/v:shape&gt;</pre>  |



| Attributes                                | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                           | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <p>stroked (Shape Stroke Toggle)</p>      | <p>Specifies whether the path defining the shape is stroked with a solid line. The stroke element (§19.1.2.21) defines other strokes. The on attribute of the stroke element overrides this attribute. Default is true.</p> <p>[Example:</p> <pre>&lt;v:shape ... fillcolor="red"   stroked="false" strokecolor="blue"...&gt; &lt;/v:shape&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <p>strokeweight (Shape Stroke Weight)</p> | <p>Specifies the width of the brush to use to stroke the path. Default is 1 point. If a number is given without units, the emu is used. The weight attribute of the stroke element (§19.1.2.21) overrides this attribute.</p> <p>[Example:</p> <pre>&lt;v:shape ... strokeweight="3pt" ... &gt; &lt;/v:shape&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                   |
| <p>style (Shape Styling Properties)</p>   | <p>Specifies the CSS2 styling properties of the shape. The CSS2 (Cascading Style Sheets, Level 2) specification, a Recommendation of the World Wide Web Consortium, is available here: <a href="http://www.w3.org/TR/REC-CSS2">http://www.w3.org/TR/REC-CSS2</a>.</p> <p>This attribute uses a semi-colon delimited list of “name:value” pairs, the syntax defined</p>                                                                                                                                                                                                   |

| Attributes    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                                                                                                                 |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
|               | <p>by section 4.1.8 of the CSS2 specification for grouped declarations (without the surrounding braces). The following tables define the allowed properties and the VML treatment of each.</p> <p>[Example:<br/> <code>&lt;v:shape ... style='position:absolute;width:100pt;height:50pt' ...</code><br/> <code>&gt;</code><br/> <code>&lt;/v:shape&gt;</code><br/> end example]</p> <table> <tr> <th data-bbox="415 596 662 644">Property</th><th data-bbox="662 596 1482 644">Description</th></tr> <tr> <td data-bbox="415 644 662 911">flip</td><td data-bbox="662 644 1482 911"> <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul> </td></tr> <tr> <td data-bbox="415 911 662 1318">height</td><td data-bbox="662 911 1482 1318"> <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> </td></tr> <tr> <td data-bbox="415 1318 662 1801">left</td><td data-bbox="662 1318 1482 1801"> <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul> </td></tr> <tr> <td data-bbox="415 1801 662 1879">margin-bottom</td><td data-bbox="662 1801 1482 1879"> <p>Specifies the position of the bottom of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in</p> </td></tr> </table> | Property | Description | flip | <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul> | height | <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> | left | <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul> | margin-bottom | <p>Specifies the position of the bottom of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in</p> |
| Property      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                                                                                                                 |
| flip          | <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                                                                                                                 |
| height        | <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                                                                                                                 |
| left          | <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                                                                                                                 |
| margin-bottom | <p>Specifies the position of the bottom of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                                                                                                                 |

| Attributes | Description  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |              | <p>CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul>                                                                                                                                         |
|            | margin-left  | <p>Specifies the position of the left of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>   |
|            | margin-right | <p>Specifies the position of the right of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul> |
|            | margin-top   | <p>Specifies the position of the top of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> </ul>                                                                                                 |

| Attributes | Description                      |                                                                                                                                                                                                                                                                                                   |
|------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                                  | <ul style="list-style-type: none"> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul>                                                                                                                                                            |
|            | mso-position-horizontal          | <p>Specifies the horizontal positioning data for objects in WordprocessingML documents. Default is absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• absolute</li> <li>• left</li> <li>• center</li> <li>• right</li> <li>• inside</li> <li>• outside</li> </ul>         |
|            | mso-position-horizontal-relative | <p>Specifies relative horizontal position data for objects in WordprocessingML documents. This modifies the mso-position-horizontal property. Default is text. Allowed values are:</p> <ul style="list-style-type: none"> <li>• margin</li> <li>• page</li> <li>• text</li> <li>• char</li> </ul> |
|            | mso-position-vertical            | <p>Specifies the vertical positioning data for objects in WordprocessingML documents. Default is absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• absolute</li> <li>• top</li> <li>• center</li> <li>• bottom</li> <li>• inside</li> <li>• outside</li> </ul>           |
|            | mso-position-vertical-relative   | <p>Specifies relative vertical position data for objects in WordprocessingML documents. This modifies the mso-position-vertical property. Default is text. Allowed values are:</p> <ul style="list-style-type: none"> <li>• margin</li> <li>• page</li> <li>• text</li> <li>• line</li> </ul>     |
|            | mso-wrap-                        | Specifies the distance from the bottom of the shape to the text                                                                                                                                                                                                                                   |

| Attributes | Description             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | distance-bottom         | that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|            | mso-wrap-distance-left  | Specifies the distance from the left side of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|            | mso-wrap-distance-right | Specifies the distance from the right side of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|            | mso-wrap-distance-top   | Specifies the distance from the top of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|            | mso-wrap-edited         | Specifies whether the wrap coordinates were customized by the user. If the wrap coordinates are generated by an editor, this property is true; otherwise they were customized by a user. Default is false.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|            | mso-wrap-style          | <p>Specifies the wrapping mode for text in shapes in WordprocessingML documents. Default is square. Allowed values are:</p> <ul style="list-style-type: none"> <li>• square - Wraps text inside the shape in a square.</li> <li>• none - Text does not wrap.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|            | position                | <p>Specifies the kind of positioning used to place an element. Default is static. When the element is contained inside a group, this property shall be absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• static - The element is positioned according to the normal flow of the page. The top and left properties are ignored. If the object is anchored inline, this value is used.</li> <li>• absolute - The element is positioned relative to the parent, using the top and left properties.</li> <li>• relative - The element is positioned according to the normal flow of the page, but the top and left properties are used. The overlap of overlapping elements is governed by the z-index property.</li> </ul> |

| Attributes | Description |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | rotation    | Specifies the angle that a shape is rotated, in degrees. Default is 0. Positive angles are clockwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|            | top         | <p>Specifies the position of the top of the containing block of the shape relative to the element above it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> |
|            | visibility  | <p>Specifies whether a shape is displayed. Only inherit and hidden are used; any other values are mapped to inherit. Default is inherit. Allowed values are:</p> <ul style="list-style-type: none"> <li>• hidden - The shape is not visible, but is still part of the flow of the objects in the browser. Mouse events are not processed.</li> <li>• inherit - The visibility state is inherited from the parent of the shape.</li> </ul>                                                                                                                                                                                                                                                                                                                   |
|            | width       | <p>Specifies the width of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>                                                                                                                                     |
|            | z-index     | <p>Specifies the display order of overlapping shapes. Default is 0. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Uses the order that the shapes appear in the page, bottom to top.</li> <li>• &lt;order&gt;- A number that represents the stacking precedence. Shapes with higher numbers are placed on</li> </ul>                                                                                                                                                                                                                                                                                                                                                   |

| Attributes | Description                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                                                                             | top of those with lower numbers. Negative numbers are allowed.                                                                                                                                                                                                                                                                                                                                                  |
|            | The following properties are only used by the textbox element (§19.1.2.22): |                                                                                                                                                                                                                                                                                                                                                                                                                 |
|            |                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                 |
|            | <b>Property</b>                                                             | <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                              |
|            | direction                                                                   | <p>Specifies the direction of the text in the textbox. Default is ltr. This property is superceded by the mso-direction-alt property if that is specified. Allowed values are:</p> <ul style="list-style-type: none"> <li>ltr - Text is displayed left-to-right.</li> <li>rtl - Text is displayed right-to-left.</li> </ul>                                                                                     |
|            | layout-flow                                                                 | <p>Determines the flow of the text layout in a textbox. Default is horizontal. Allowed values are:</p> <ul style="list-style-type: none"> <li>horizontal - Text is displayed horizontally.</li> <li>vertical - Text is displayed vertically.</li> <li>vertical-ideographic - Ideographic text is displayed vertically.</li> <li>horizontal-ideographic - Ideographic text is displayed horizontally.</li> </ul> |
|            | mso-direction-alt                                                           | Specifies an alternate direction for text in textboxes. Overrides the direction property. The only allowed value is context.                                                                                                                                                                                                                                                                                    |
|            | mso-fit-shape-to-text                                                       | Specifies whether the shape stretches to fit the text in the textbox. Default is false.                                                                                                                                                                                                                                                                                                                         |
|            | mso-fit-text-to-shape                                                       | Specifies whether the text stretches to fit the textbox. Default is false.                                                                                                                                                                                                                                                                                                                                      |
|            | mso-layout-flow-alt                                                         | Specifies the alternate layout flow for text in textboxes. This property is used instead of layout-flow when the layout flow is from bottom to top for non-ideographic languages. Its only value is bottom-to-top.                                                                                                                                                                                              |
|            | mso-next-textbox                                                            | Specifies the ID of the next textbox in a series. Used to keep track of a set of linked textboxes. Default is no value.                                                                                                                                                                                                                                                                                         |
|            | mso-rotate                                                                  | <p>Specifies a specific rotation value for text in a textbox. Default is 0. Allowed values are:</p> <ul style="list-style-type: none"> <li>0</li> </ul>                                                                                                                                                                                                                                                         |

| Attributes                                                                   | Description                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                              |                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>• 90</li> <li>• 180</li> <li>• -90</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                                              | mso-text-scale                                                                                                                                                                                                                                                                         | Specifies the scaling factor for fitting text to shapes. Default is 0. This property is only used if mso-fit-text-to-shape is true.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                              | v-text-anchor                                                                                                                                                                                                                                                                          | <p>Specifies the vertical anchoring of text in a textbox. Default is top. The alignment of a text anchor only becomes evident if mso-fit-text-to-shape is false. This property is different from the vertical-align CSS property, which is used for ideographic languages. Allowed values are:</p> <ul style="list-style-type: none"> <li>• top</li> <li>• middle</li> <li>• bottom</li> <li>• top-center</li> <li>• middle-center</li> <li>• bottom-center</li> <li>• top-baseline</li> <li>• bottom-baseline</li> <li>• top-center-baseline</li> <li>• bottom-center-baseline</li> </ul> |
| The following properties are only used by the textpath element (§19.1.2.23): |                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                              |                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Property</b>                                                              |                                                                                                                                                                                                                                                                                        | <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| font                                                                         | Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family.                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| font-family                                                                  | Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property.                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| font-size                                                                    | Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property.                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| font-style                                                                   | <p>Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• normal</li> <li>• italic</li> <li>• oblique - Treated the same as italic.</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |



| Attributes      | Description                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|--------|----------------------|---------|-----|-----|-----|-----|------|------------------|--------|-----|-----|-----|-----|-----|
|                 | font-variant                                                                                                                                                                                                                                                           | <p>Specifies the variant style of a font. Default is normal. The values are the same as those of the CSS font-variant property. Allowed values are:</p> <ul style="list-style-type: none"><li>normal</li><li>small-caps</li></ul>                                                                                                                                                                                                                                                                                                                                                                        |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|                 | font-weight                                                                                                                                                                                                                                                            | <p>Specifies the thickness of the letters of the font. Default is normal. The values are the same as those of the CSS font-weight property. Allowed values are:</p> <table><tr><th>Value</th><th>Description</th></tr><tr><td>normal</td><td rowspan="6">Treated as non-bold.</td></tr><tr><td>lighter</td></tr><tr><td>100</td></tr><tr><td>200</td></tr><tr><td>300</td></tr><tr><td>400</td></tr><tr><td>bold</td><td rowspan="7">Treated as bold.</td></tr><tr><td>bolder</td></tr><tr><td>500</td></tr><tr><td>600</td></tr><tr><td>700</td></tr><tr><td>800</td></tr><tr><td>900</td></tr></table> | Value | Description | normal | Treated as non-bold. | lighter | 100 | 200 | 300 | 400 | bold | Treated as bold. | bolder | 500 | 600 | 700 | 800 | 900 |
|                 | Value                                                                                                                                                                                                                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|                 | normal                                                                                                                                                                                                                                                                 | Treated as non-bold.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| lighter         |                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 100             |                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 200             |                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 300             |                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 400             |                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| bold            | Treated as bold.                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| bolder          |                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 500             |                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 600             |                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 700             |                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 800             |                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 900             |                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| mso-text-shadow | <p>Specifies whether a shadow is applied to the text on a text path. Default is false.</p>                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| text-decoration | <p>Specifies the style of text decoration. Default is none. The values are the same as those of the CSS text-decoration property. Allowed values are:</p> <ul style="list-style-type: none"><li>none</li><li>underline</li><li>overline</li><li>line-through</li></ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |

| Attributes                                                                                                                                                                                                                                                                                                                                                            | Description                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                       | <ul style="list-style-type: none"> <li>• blink</li> </ul>                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                       | <b>v-rotate-letters</b><br>Specifies whether the letters of the text are rotated counterclockwise by 90 degrees. Default is false.                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                       | <b>v-same-letter-heights</b><br>Specifies whether all letters are the same height regardless of initial case. If true, the lowercase letters are stretched to the height of the uppercase letters. Default is false.                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                       | <b>v-text-align</b><br>Specifies the alignment of text. Default is left. Allowed values are: <ul style="list-style-type: none"> <li>• left</li> <li>• right</li> <li>• center</li> <li>• justify</li> <li>• letter-justify - Distributes the extra space between the letters.</li> <li>• stretch-justify - Stretches the letters to fill in the space.</li> </ul>                                             |
|                                                                                                                                                                                                                                                                                                                                                                       | <b>v-text-kern</b><br>Specifies whether kerning is turned on. Default is false.                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                       | <b>v-text-reverse</b><br>Specifies whether the layout order of rows is reversed. Default is false. This is used for vertical text layout.                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                       | <b>v-text-spacing-mode</b><br>Specifies the mode for letter spacing. Default is tightening. This property determines whether space is removed between each letter (tightening) or added between each letter (tracking). The amount of letter spacing change is defined by the v-text-spacing property. Allowed values are: <ul style="list-style-type: none"> <li>• tightening</li> <li>• tracking</li> </ul> |
|                                                                                                                                                                                                                                                                                                                                                                       | <b>v-text-spacing</b><br>Specifies the amount of spacing for text in 100ths of single line spacing. Default is 100.                                                                                                                                                                                                                                                                                           |
| <p>The line (§19.1.2.12), polyline (§19.1.2.15) and curve (§19.1.2.3) elements ignore the following properties:</p> <ul style="list-style-type: none"> <li>• top</li> <li>• left</li> <li>• width</li> <li>• height</li> </ul> <p>The following properties are not inherited by an element that references a shapetype element (§19.1.2.20) via the id attribute:</p> |                                                                                                                                                                                                                                                                                                                                                                                                               |

| Attributes                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|--------------|----------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------|
|                                   | <ul style="list-style-type: none"> <li>• flip</li> <li>• height</li> <li>• left</li> <li>• margin-left</li> <li>• margin-top</li> <li>• position</li> <li>• rotation</li> <li>• top</li> <li>• visibility</li> <li>• width</li> <li>• z-index</li> </ul> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| target (Hyperlink Display Target) | <p>Specifies a frame or window that a URL is displayed in. Default is no value. Allowed values are:</p> <table border="1" data-bbox="415 921 1479 1560"> <thead> <tr> <th>Value</th><th>Description</th></tr> </thead> <tbody> <tr> <td>&lt;targetname&gt;</td><td>String containing the name of the frame or window in which to load the document.</td></tr> <tr> <td>_blank</td><td>Specifies that the linked document is loaded into a new blank window. This window is not named.</td></tr> <tr> <td>_media</td><td>Specifies that the linked document is loaded into the browser's multimedia pane.</td></tr> <tr> <td>_parent</td><td>Specifies that the linked document is loaded into the immediate parent of the document containing the link.</td></tr> <tr> <td>_search</td><td>Specifies that the linked document is loaded into the browser's search pane.</td></tr> <tr> <td>_self</td><td>Specifies that the linked document is loaded into the window in which the link was clicked (the active window).</td></tr> <tr> <td>_top</td><td>Specifies that the linked document is loaded into the topmost window.</td></tr> </tbody> </table> <p>[Example:</p> <pre> &lt;v:shape ...   href="http://www.openxmlformats.org"   target="_self" ... &gt; &lt;/v:shape&gt; </pre> <p>end example]</p> | Value | Description | <targetname> | String containing the name of the frame or window in which to load the document. | _blank | Specifies that the linked document is loaded into a new blank window. This window is not named. | _media | Specifies that the linked document is loaded into the browser's multimedia pane. | _parent | Specifies that the linked document is loaded into the immediate parent of the document containing the link. | _search | Specifies that the linked document is loaded into the browser's search pane. | _self | Specifies that the linked document is loaded into the window in which the link was clicked (the active window). | _top | Specifies that the linked document is loaded into the topmost window. |
| Value                             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| <targetname>                      | String containing the name of the frame or window in which to load the document.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| _blank                            | Specifies that the linked document is loaded into a new blank window. This window is not named.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| _media                            | Specifies that the linked document is loaded into the browser's multimedia pane.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| _parent                           | Specifies that the linked document is loaded into the immediate parent of the document containing the link.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| _search                           | Specifies that the linked document is loaded into the browser's search pane.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| _self                             | Specifies that the linked document is loaded into the window in which the link was clicked (the active window).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |
| _top                              | Specifies that the linked document is loaded into the topmost window.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |              |                                                                                  |        |                                                                                                 |        |                                                                                  |         |                                                                                                             |         |                                                                              |       |                                                                                                                 |      |                                                                       |

| Attributes                                                                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                         | <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                       |
| <p>title (Shape Title)</p>                                                                              | <p>Specifies the text displayed when the mouse pointer moves over the shape. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... title="tooltip" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                       |
| <p>userdrawn (Exists In Master Slide)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether the user has added the shape to a master slide. Default is false. Used by PresentationML.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:userdrawn="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                 |
| <p>userhidden (Hide Script Anchors)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>   | <p>Specifies whether a script anchor is hidden. Default is false. If true, script anchors stay hidden even if the shape is otherwise visible. A script anchor is the visual representation of a script that when displayed in an application.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:userhidden="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <p>wrapcoords (Shape Bounding Polygon)</p>                                                              | <p>Specifies the bounding polygon that surrounds a shape. This is specified using a comma-delimited list of x and y coordinates: "x1,y1,x2,y2,x3,y3,..." This is used when text is tightly wrapped around a shape. Default is no value until the mso-wrap-mode style attribute is set to tight or through.</p>                                                                                                                                                         |

| Attributes | Description                                                                                                                                                                                                                                                      |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <p>[Example:</p> <pre data-bbox="456 323 1159 422">&lt;v:shape ...   wrapcoords="0,0 0,200, 200,200, 200,0" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |

[Note: The W3C XML Schema definition of this element's content model (CT\_Shapetype) is located in §A.6.1. end note]

#### 19.1.2.21 stroke (Line Stroke Settings)

This element describes how to draw the path if something beyond solid line with a solid color is desired. The attributes of the stroke element can be used to describe a powerful set of stroke properties. Extensions to the VML stroke definition are encoded as sub-elements of stroke.

[Example:

```
<v:polyline points="0pt,0pt,50pt,0pt,50pt,35pt,15pt,35pt,
  15pt,15pt,75pt,15pt">
  <v:stroke startarrow="classic" endarrow="classic"
    startarrowwidth="wide" endarrowwidth="wide" dashstyle="dashdot"
    weight="2pt" color="teal" linestyle="thinThin"/>
</v:polyline>
```



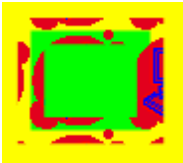
end example]

| Parent Elements                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arc (§19.1.2.1); background (Part 1, §17.2.1); curve (§19.1.2.3); group (§19.1.2.7); image (§19.1.2.10); line (§19.1.2.12); object (Part 1, §17.3.3.19); oval (§19.1.2.13); pict (§14.2.2.2); pict (§14.5.1); polyline (§19.1.2.15); rect (§19.1.2.16); roundrect (§19.1.2.17); shape (§19.1.2.19); shapedefaults (§19.2.2.28); shapetype (§19.1.2.20) |

| Child Elements                  | Subclause |
|---------------------------------|-----------|
| bottom (Text Box Bottom Stroke) | §19.2.2.1 |

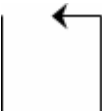
| Child Elements                    | Subclause  |
|-----------------------------------|------------|
| column (Text Box Interior Stroke) | §19.2.2.6  |
| left (Text Box Left Stroke)       | §19.2.2.16 |
| right (Text Box Right Stroke)     | §19.2.2.26 |
| top (Text Box Top Stroke)         | §19.2.2.32 |

| Attributes                                                                                             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>alhref</b> (Alternate Image Reference)<br><br>Namespace:<br>urn:schemas-microsoft-com:office:office | <p>Specifies an alternate reference for an image in Macintosh PICT format.</p> <p>[Example:</p> <pre>&lt;v:stroke ... alhref="myimage.pcz" ... &gt; &lt;/v:stroke&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>color</b> (Stroke Color)                                                                            | <p>Specifies the stroke color. Overrides the strokecolor attribute of a shape. Default is black. See the fillcolor attribute for a list of supported named colors.</p> <p>[Example: The shape stroke is blue:</p> <pre>&lt;v:shape ... strokecolor="red" ... &gt;   &lt;v:stroke color="blue"/&gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p>                                                                                                                                                                                                                                                                         |
| <b>color2</b> (Stroke Alternate Pattern Color)                                                         | <p>Specifies a second color for strokes, used when filltype is pattern. Default is no value.</p> <p>When a pattern fill is used for the stroke, the stroke color is used in colored parts of the source image. The color2 defines an alternate color to use in place of black in the source image.</p> <p>[Example: This unusual example is intended to demonstrate how the image and colors interact to create a patterned stroke. The yellow background shows transparency. The non-square shape and square image create an effective offset. The heavy stroke weight shows more of the image. The green shape fill shows how the stroke is overlaid on the shape.</p> <pre>&lt;v:background fillcolor="yellow"/&gt;</pre> |

| Attributes                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                 | <pre> &lt;v:shape style="width:60;height:50"   strokecolor="red" fillcolor="lime"   path="m 0,0 l 0,1000 1000,1000 1000,0 x e"&gt;   &lt;v:stroke filltype="pattern" weight="10pt"     src="myimage.gif" color2="blue"/&gt; &lt;/v:shape&gt; </pre>  <p>, where myimage.gif is: </p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| dashstyle (Stroke Dash Pattern) | <p>Specifies the dot and dash pattern for a stroke. Default is solid. Pre-defined values are:</p> <ul style="list-style-type: none"> <li>• solid</li> <li>• shortdash</li> <li>• shortdot</li> <li>• shortdashdot</li> <li>• shortdashdotdot</li> <li>• dot</li> <li>• dash</li> <li>• longdash</li> <li>• dashdot</li> <li>• longdashdot</li> <li>• longdashdotdot</li> </ul> <p>A custom-defined dash pattern can also be specified using a series of numbers. These define the length of the dash (the drawn part of the stroke) and the length of the space between the dashes. The lengths are relative to the line width: a length of 1 is equal to the line width. The endcap style is applied to each dash but the arrow style is not. The string defines the length of the dash then the length of the space. This can be repeated to form complex dash styles. The string should always contain a pair of numbers; if it contains an odd number of numbers the last is disregarded. 0 implies a dot that is fourfold symmetrical (with round end caps, this is a circle).</p> <p><i>[Example:</i></p> <pre> &lt;v:stroke dashstyle="0 2" weight="3pt"   endcap="round"&gt; &lt;/v:stroke&gt; </pre> |

| Attributes                                                                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                 |  <pre data-bbox="454 430 1031 525">&lt;v:stroke dashstyle="longdashdotdot"   weight="2pt"&gt; &lt;/v:stroke&gt;</pre>  <p data-bbox="414 709 576 741"><i>end example]</i></p> <p data-bbox="414 779 1377 846">The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                        |
| <p data-bbox="142 863 386 930">endarrow (Line End Arrowhead)</p>                | <p data-bbox="414 863 1401 930">Specifies an arrowhead for the end of a line. Default is none. The path shall not be closed with the x command for the arrowhead to show. Allowed values are:</p> <ul data-bbox="462 972 613 1192" style="list-style-type: none"> <li>• none</li> <li>• block</li> <li>• classic</li> <li>• diamond</li> <li>• oval</li> <li>• open</li> </ul> <p data-bbox="414 1255 535 1287">[Example:</p> <pre data-bbox="454 1329 933 1360">&lt;v:stroke endarrow="classic"/&gt;</pre>  <p data-bbox="414 1539 576 1570"><i>end example]</i></p> <p data-bbox="414 1612 1433 1680">The possible values for this attribute are defined by the ST_StrokeArrowType simple type (§19.1.3.8).</p> |
| <p data-bbox="142 1696 373 1801">endarrowlength (Line End Arrowhead Length)</p> | <p data-bbox="414 1696 1433 1764">Specifies the length of the arrowhead at the end of a line. Default is medium. Allowed values are:</p> <ul data-bbox="462 1806 600 1873" style="list-style-type: none"> <li>• short</li> <li>• medium</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |



| Attributes                                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                | <ul style="list-style-type: none"> <li>• long</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke ... endarrowlength="long" ... /&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_StrokeArrowLength simple type (§19.1.3.7).</p>                                                                                                                                              |
| endarrowwidth<br>(Line End<br>Arrowhead Width) | <p>Specifies the width of the arrowhead at the end of a line. Default is medium. Allowed values are:</p> <ul style="list-style-type: none"> <li>• narrow</li> <li>• medium</li> <li>• wide</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke ... endarrowwidth="wide" ... /&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_StrokeArrowWidth simple type (§19.1.3.9).</p> |
| endcap (Line End<br>Cap)                       | <p>Specifies the cap style for the end of a stroke. Default is flat. Allowed values are:</p> <ul style="list-style-type: none"> <li>• flat</li> <li>• square</li> <li>• round</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke ... endcap="round" weight="10pt" ... /&gt;</pre>                                                                                                                                                                                                                            |

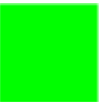
| Attributes                       | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                  |  <p>endcap="flat"</p> <p>endcap="square"</p> <p>endcap="round"</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_StrokeEndCap simple type (§19.1.3.10).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| filltype (Stroke Image Style)    | <p>Specifies the kind of fill used for the background of a stroke. Default is <code>solid</code>. Allowed values are:</p> <ul style="list-style-type: none"> <li>• <code>solid</code> - The fill pattern is solid.</li> <li>• <code>tile</code> - The fill image is tiled.</li> <li>• <code>pattern</code> - The fill image is stretched to form a pattern.</li> <li>• <code>frame</code> - The fill image becomes a border for the shape.</li> </ul> <p>[Example:</p> <pre> &lt;v:shape style="width:50;height:50"   strokecolor="red"   path="m 0,0 l 0,1000 1000,1000 1000,0 x e"&gt;   &lt;v:stroke filltype="frame" weight="10pt"     src="border.gif"/&gt; &lt;/v:shape&gt; </pre>  <p>, where border.gif is: </p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_FillType simple type (§19.1.3.4).</p> |
| forcedash (Force Dashed Outline) | <p>Specifies whether a dashed outline is used to draw a shape when a shape has no line or fill. Default is <code>false</code>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

| Attributes                                                                                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>                                        | <p>Used by PresentationML placeholders to draw a dashed outline when there is no line and no fill for a shape.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:forcedash="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                             |
| <p>href (Original Image Reference)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies the URL to the original image file. Used only if the picture has been linked and embedded. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:fill ... o:href="myimage.gif" ... &gt; &lt;/v:fill&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                     |
| <p>id (Relationship)</p> <p>Namespace:<br/>.../officeDocument/2006/relationships</p>                 | <p>Specifies the relationship ID of the relationship to the image used for the stroke. The specified relationship shall be of type <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/image">http://schemas.openxmlformats.org/officeDocument/2006/relationships/image</a> or the document shall be considered non-conformant.</p> <p>[Example: The markup specifies the associated relationship part with relationship ID rId10 contains the corresponding relationship information:</p> <pre>&lt; ... r:id="rId10" /&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |
| <p>id (Unique Identifier)</p>                                                                        | <p>Specifies a unique identifier that can be used to reference a VML object.</p> <p>Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... id="myShape" ... &gt;</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| Attributes                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |             |        |                       |         |                                        |        |                                    |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|--------|-----------------------|---------|----------------------------------------|--------|------------------------------------|
|                                                            | <p><code>&lt;/v:shape&gt;</code></p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                       |         |                                        |        |                                    |
| <p><b>imagealignshape</b><br/>(Stroke Image Alignment)</p> | <p>Specifies the alignment of the stroke image. If true, the image is aligned with the shape. Otherwise, it is aligned with the containing scope. Default is true.</p> <p>[Example: The top position offset shifts the image alignment relative to the containing window:</p> <pre> &lt;v:shape fillcolor="silver"   style="top:20;width:50;height:50"   path="m 0,0 l 0,1000 1000,1000 1000,0 x e"&gt;   &lt;v:stroke imagealignshape="false" weight="20pt"     filltype="tile" src="myimage.gif"/&gt; &lt;/v:shape&gt; </pre> <div data-bbox="451 919 609 1075">  </div> <p><code>imagealignshape="false"</code></p> <div data-bbox="451 1117 609 1272">  </div> <p><code>imagealignshape="false"</code></p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |       |             |        |                       |         |                                        |        |                                    |
| <p><b>imageaspect</b><br/>(Stroke Image Aspect Ratio)</p>  | <p>Specifies how the stroke image aspect ratio is preserved. Default is ignore. Allowed values are:</p> <table border="1" data-bbox="415 1577 1320 1852"> <thead> <tr> <th>Value</th><th>Description</th></tr> </thead> <tbody> <tr> <td>ignore</td><td>Ignore aspect issues.</td></tr> <tr> <td>atleast</td><td>Image is at least as big as imagesize.</td></tr> <tr> <td>atmost</td><td>Image is no bigger than imagesize.</td></tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Value | Description | ignore | Ignore aspect issues. | atleast | Image is at least as big as imagesize. | atmost | Image is no bigger than imagesize. |
| Value                                                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |             |        |                       |         |                                        |        |                                    |
| ignore                                                     | Ignore aspect issues.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |        |                       |         |                                        |        |                                    |
| atleast                                                    | Image is at least as big as imagesize.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |             |        |                       |         |                                        |        |                                    |
| atmost                                                     | Image is no bigger than imagesize.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |             |        |                       |         |                                        |        |                                    |

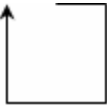
| Attributes                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                   | <p>[Example:</p> <pre>&lt;v:stroke filltype="frame" weight="10pt"   src="border.gif" imagealignshape="true"   imageaspect="atleast"&gt; &lt;/v:stroke&gt;</pre>  <p>imagealignshape="ignore"</p> <p>imagealignshape="atleast"</p> <p>imagealignshape="atmost"</p> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_ImageAspect simple type (§19.1.3.5).</p> |
| imagesize (Stroke Image Size)     | <p>Specifies the size of the image for the stroke. Default is the size of the image.</p> <p>[Example:</p> <pre>&lt;v:stroke ... imagesize="10pt,10pt" ... /&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                      |
| insetpen (Inset Border From Path) | <p>Specifies that the border shall be displayed inside of the path defining the shape, rather than along the path (the default border placement), or outside of the path as might be done with an image.</p> <p>[Example:</p> <pre>&lt;v:shape ... insetpen="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                   |

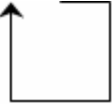
| Attributes                             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>joinstyle (Line End Join Style)</b> | <p>Specifies the join style for line ends. Default is round.</p> <ul style="list-style-type: none"> <li>• round</li> <li>• bevel</li> <li>• miter</li> </ul> <p>[Example:</p> <pre>&lt;v:polyline strokeweight="10pt" strokecolor="navy"   points="10pt,10pt,50pt,50pt,90pt,10pt"&gt;   &lt;v:stroke joinstyle="bevel"/&gt; &lt;/v:polyline&gt;</pre>  <p>joinstyle="round"</p> <p>joinstyle="bevel"</p> <p>joinstyle="miter"</p> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_StrokeJoinStyle simple type (§19.1.3.11).</p> |
| <b>linestyle (Stroke Line Style)</b>   | <p>Specifies the line style of the stroke. Default is single.</p> <ul style="list-style-type: none"> <li>• single</li> <li>• thinThin</li> <li>• thinThick</li> <li>• thickThin</li> <li>• thickBetweenThin</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke linestyle="thickThin" weight="5pt"&gt; &lt;/v:stroke&gt;</pre>                                                                                                                                                                                                                                                                                                                              |

| Attributes                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                |  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_StrokeLineStyle simple type (§19.1.3.12).</p>                                                                                                                                                                                                                                                                                                            |
| miterlimit (Miter Joint Limit) | <p>Specifies the smoothness of the miter joint, or the maximum distance between the inner point and outer point of a joint. This number is a multiple of the thickness of the line. Default is 8.</p> <p>[Example:</p> <pre>&lt;v:stroke jointstyle="miter" weight="10pt"   miterlimit="2"&gt; &lt;/v:stroke&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema decimal datatype.</p> |
| on (Stroke Toggle)             | <p>Specifies whether the stroke is displayed. Default is true. This attribute overrides the shape's stroke attribute.</p> <p>[Example:</p> <pre>&lt;v:rect style="width:50;height:50" stroked="true"   fillcolor="lime" strokecolor="red"&gt;   &lt;v:stroke on="false" weight="5pt"/&gt; &lt;/v:rect&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| opacity (Stroke Opacity)       | <p>Specifies the amount of transparency of a stroke. Default is 1.0.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

| Attributes                                                                                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                   | <p>[Example:</p> <pre>&lt;v:rect style="width:50;height:50"   fillcolor="lime" strokecolor="red"&gt;   &lt;v:stroke weight="5pt" opacity="50%"/&gt; &lt;/v:rect&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                  |
| <p>relid (Relationship to Part)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies the relationship ID of the relationship to the image. The specified relationship shall be of type<br/><a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/image">http://schemas.openxmlformats.org/officeDocument/2006/relationships/image</a> or the document shall be considered non-conformant.</p> <p>[Example: The markup specifies the associated relationship part with relationship ID rId10 contains the corresponding relationship information:</p> <pre>&lt;v:stroke ... o:relid="rId10" ...&gt; &lt;/v:stroke&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p> |
| <p>src (Stroke Image Location)</p>                                                                | <p>Specifies the source image to load for a stroke fill. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:stroke ... src="myimage.gif" ... &gt; &lt;/v:stroke&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <p>startarrow (Line Start Arrowhead)</p>                                                          | <p>Specifies an arrowhead for the start of a line. Default is none. The path shall not be closed with the x command for the arrowhead to show. Allowed values are:</p> <ul style="list-style-type: none"> <li>• none</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |



| Attributes                                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                      | <ul style="list-style-type: none"> <li>• block</li> <li>• classic</li> <li>• diamond</li> <li>• oval</li> <li>• open</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke startarrow="classic"/&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_StrokeArrowType simple type (§19.1.3.8).</p>                                                                                         |
| startarrowlength<br>(Line Start<br>Arrowhead Length) | <p>Specifies the length of the arrowhead at the start of a line. Default is medium. Allowed values are:</p> <ul style="list-style-type: none"> <li>• short</li> <li>• medium</li> <li>• long</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke ... startarrowlength="long" ... /&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_StrokeArrowLength simple type (§19.1.3.7).</p> |
| startarrowwidth<br>(Line Start<br>Arrowhead Width)   | <p>Specifies the width of the arrowhead at the start of a line. Default is medium. Allowed values are:</p> <ul style="list-style-type: none"> <li>• narrow</li> <li>• medium</li> <li>• wide</li> </ul>                                                                                                                                                                                                                                                                                                       |

| Attributes                                                                                          | Description                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                     | <p>[Example:</p> <pre>&lt;v:stroke ... startarrowwidth="wide" ... /&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_StrokeArrowWidth simple type (§19.1.3.9).</p>                                                     |
| <p>title (Stroke Title)</p> <p>Namespace:<br/>urn:schemas-<br/>microsoft-<br/>com:office:office</p> | <p>Specifies the title of an embedded stroke image. This is typically set to the comment property of the image, which is often blank.</p> <p>[Example:</p> <pre>&lt;v:fill ... o:title="alt text" ... &gt; &lt;/v:fill&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <p>weight (Stroke Weight)</p>                                                                       | <p>Specifies the thickness of a stroke. Default is 1. This attribute overrides the shape's strokeweight attribute.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                               |

[Note: The W3C XML Schema definition of this element's content model (CT\_Stroke) is located in §A.6.1. *end note*]

#### 19.1.2.22 textbox (Text Box)

This element is used to define text that appears inside the shape. This text can contain rich formatting and is rendered to fit inside the textboxrect defined by the path element (§19.1.2.14).

[Example:

```
<v:shape style="width=200;height=200" coordsize="400,400"
  fillcolor="yellow" strokecolor="maroon"
  path="m 119,0 l 148,86 238,86 166,140 192,226 119,175 46,226
  72,140 0,86 90,86 x e">
```

```
<v:textbox inset="32pt,35pt,, ">VML</v:textbox>
</v:shape>
```



*end example]*

| Parent Elements                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arc (§19.1.2.1); background (Part 1, §17.2.1); curve (§19.1.2.3); group (§19.1.2.7); image (§19.1.2.10); line (§19.1.2.12); object (Part 1, §17.3.3.19); oval (§19.1.2.13); pict (§14.2.2.2); pict (§14.5.1); polyline (§19.1.2.15); rect (§19.1.2.16); roundrect (§19.1.2.17); shape (§19.1.2.19); shapedefaults (§19.2.2.28); shapetype (§19.1.2.20) |

| Child Elements                                | Subclause |
|-----------------------------------------------|-----------|
| txbxContent (Rich Text Box Content Container) | §14.8.1.1 |

| Attributes             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Unique Identifier) | <p>Specifies a unique identifier that can be used to reference a VML object.</p> <p>Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... id="myShape" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                       |
| inset (Text Box Inset) | <p>Specifies inner margin values for textbox text. Default is "0.1in, 0.05in, 0.1in, 0.05in". Missing values are set to the default. This is used if insetmode is custom.</p> <p>The internal text margin value is specified as a string containing four values, each separated by commas or spaces. The values measure inset from the left, top, right, and bottom edges of the box specified by the textboxrect attribute of the path element (§19.1.2.14).</p> |

| Attributes                                                                                                                | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                           | <p>[Example: The text is set toward the lower right of a small square:</p> <pre>&lt;v:textbox inset="20pt,30pt,10pt,10pt"&gt;   VML&lt;/v:textbox&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                               |
| <p>insetmode (Text Inset Mode)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p>                          | <p>Specifies whether the application calculates the internal text margin instead of using the inset attribute. Default is custom.</p> <p>[Example:</p> <pre>&lt;v:textbox ... o:insetmode="auto" ... &gt; &lt;/v:textbox&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_InsetMode simple type (§19.2.3.17).</p>                                                                                                                                                                                                                                                                                                   |
| <p>singleclick (Text Box Single-Click Selection Toggle)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:office:office</p> | <p>Specifies whether text is selectable with a single click. Default is false.</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <p>style (Shape Styling Properties)</p>                                                                                   | <p>Specifies the CSS2 styling properties of the shape. The CSS2 (Cascading Style Sheets, Level 2) specification, a Recommendation of the World Wide Web Consortium, is available here: <a href="http://www.w3.org/TR/REC-CSS2">http://www.w3.org/TR/REC-CSS2</a>.</p> <p>This attribute uses a semi-colon delimited list of “name:value” pairs, the syntax defined by section 4.1.8 of the CSS2 specification for grouped declarations (without the surrounding braces). The following tables define the allowed properties and the VML treatment of each.</p> <p>[Example:</p> <pre>&lt;v:shape ... style='position:absolute;width:100pt;height:50pt' ...</pre> |

| Attributes    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | <div data-bbox="415 247 617 348"> <pre>&gt; &lt;/v:shape&gt; end example]</pre> </div> <table border="1" data-bbox="415 384 1482 1885"> <thead> <tr> <th data-bbox="415 384 662 430">Property</th><th data-bbox="662 384 1482 430">Description</th></tr> </thead> <tbody> <tr> <td data-bbox="415 430 662 699">flip</td><td data-bbox="662 430 1482 699"> <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul> </td></tr> <tr> <td data-bbox="415 699 662 1108">height</td><td data-bbox="662 699 1482 1108"> <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> </td></tr> <tr> <td data-bbox="415 1108 662 1591">left</td><td data-bbox="662 1108 1482 1591"> <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul> </td></tr> <tr> <td data-bbox="415 1591 662 1885">margin-bottom</td><td data-bbox="662 1591 1482 1885"> <p>Specifies the position of the bottom of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm,</li> </ul> </td></tr> </tbody> </table> | Property | Description | flip | <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul> | height | <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> | left | <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul> | margin-bottom | <p>Specifies the position of the bottom of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm,</li> </ul> |
| Property      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| flip          | <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| height        | <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| left          | <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| margin-bottom | <p>Specifies the position of the bottom of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm,</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

| Attributes | Description             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                         | <p>mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</p> <ul style="list-style-type: none"> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                        |
|            | margin-left             | <p>Specifies the position of the left of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>   |
|            | margin-right            | <p>Specifies the position of the right of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul> |
|            | margin-top              | <p>Specifies the position of the top of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul>   |
|            | mso-position-horizontal | <p>Specifies the horizontal positioning data for objects in WordprocessingML documents. Default is absolute. Allowed values are:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| Attributes | Description                      |                                                                                                                                                                                                                                                                                                   |
|------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                                  | <ul style="list-style-type: none"> <li>• absolute</li> <li>• left</li> <li>• center</li> <li>• right</li> <li>• inside</li> <li>• outside</li> </ul>                                                                                                                                              |
|            | mso-position-horizontal-relative | <p>Specifies relative horizontal position data for objects in WordprocessingML documents. This modifies the mso-position-horizontal property. Default is text. Allowed values are:</p> <ul style="list-style-type: none"> <li>• margin</li> <li>• page</li> <li>• text</li> <li>• char</li> </ul> |
|            | mso-position-vertical            | <p>Specifies the vertical positioning data for objects in WordprocessingML documents. Default is absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• absolute</li> <li>• top</li> <li>• center</li> <li>• bottom</li> <li>• inside</li> <li>• outside</li> </ul>           |
|            | mso-position-vertical-relative   | <p>Specifies relative vertical position data for objects in WordprocessingML documents. This modifies the mso-position-vertical property. Default is text. Allowed values are:</p> <ul style="list-style-type: none"> <li>• margin</li> <li>• page</li> <li>• text</li> <li>• line</li> </ul>     |
|            | mso-wrap-distance-bottom         | <p>Specifies the distance from the bottom of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>               |
|            | mso-wrap-                        | <p>Specifies the distance from the left side of the shape to the text that wraps around it. Default is 0 pt. This property is different</p>                                                                                                                                                       |

| Attributes | Description             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | distance-left           | from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|            | mso-wrap-distance-right | Specifies the distance from the right side of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|            | mso-wrap-distance-top   | Specifies the distance from the top of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|            | mso-wrap-edited         | Specifies whether the wrap coordinates were customized by the user. If the wrap coordinates are generated by an editor, this property is true; otherwise they were customized by a user. Default is false.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|            | mso-wrap-style          | <p>Specifies the wrapping mode for text in shapes in WordprocessingML documents. Default is square. Allowed values are:</p> <ul style="list-style-type: none"> <li>• square - Wraps text inside the shape in a square.</li> <li>• none - Text does not wrap.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|            | position                | <p>Specifies the kind of positioning used to place an element. Default is static. When the element is contained inside a group, this property shall be absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• static - The element is positioned according to the normal flow of the page. The top and left properties are ignored. If the object is anchored inline, this value is used.</li> <li>• absolute - The element is positioned relative to the parent, using the top and left properties.</li> <li>• relative - The element is positioned according to the normal flow of the page, but the top and left properties are used. The overlap of overlapping elements is governed by the z-index property.</li> </ul> |
|            | rotation                | Specifies the angle that a shape is rotated, in degrees. Default is 0. Positive angles are clockwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|            | top                     | Specifies the position of the top of the containing block of the shape relative to the element above it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |



| Attributes                                                                  | Description |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                             |             | <p>shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul>                                                                                                                                    |
|                                                                             | visibility  | <p>Specifies whether a shape is displayed. Only inherit and hidden are used; any other values are mapped to inherit. Default is inherit. Allowed values are:</p> <ul style="list-style-type: none"> <li>• hidden - The shape is not visible, but is still part of the flow of the objects in the browser. Mouse events are not processed.</li> <li>• inherit - The visibility state is inherited from the parent of the shape.</li> </ul>                                                                                                                                                                               |
|                                                                             | width       | <p>Specifies the width of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul> |
|                                                                             | z-index     | <p>Specifies the display order of overlapping shapes. Default is 0. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Uses the order that the shapes appear in the page, bottom to top.</li> <li>• &lt;order&gt;- A number that represents the stacking precedence. Shapes with higher numbers are placed on top of those with lower numbers. Negative numbers are allowed.</li> </ul>                                                                                                                                                |
| The following properties are only used by the textbox element (§19.1.2.22): |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                             | Property    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| Attributes | Description                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <p><b>direction</b></p> <p>Specifies the direction of the text in the textbox. Default is ltr. This property is superceded by the mso-direction-alt property if that is specified. Allowed values are:</p> <ul style="list-style-type: none"> <li>• ltr - Text is displayed left-to-right.</li> <li>• rtl - Text is displayed right-to-left.</li> </ul>                                                                                           |
|            | <p><b>layout-flow</b></p> <p>Determines the flow of the text layout in a textbox. Default is horizontal. Allowed values are:</p> <ul style="list-style-type: none"> <li>• horizontal - Text is displayed horizontally.</li> <li>• vertical - Text is displayed vertically.</li> <li>• vertical-ideographic - Ideographic text is displayed vertically.</li> <li>• horizontal-ideographic - Ideographic text is displayed horizontally.</li> </ul> |
|            | <p><b>mso-direction-alt</b></p> <p>Specifies an alternate direction for text in textboxes. Overrides the direction property. The only allowed value is context.</p>                                                                                                                                                                                                                                                                               |
|            | <p><b>mso-fit-shape-to-text</b></p> <p>Specifies whether the shape stretches to fit the text in the textbox. Default is false.</p>                                                                                                                                                                                                                                                                                                                |
|            | <p><b>mso-fit-text-to-shape</b></p> <p>Specifies whether the text stretches to fit the textbox. Default is false.</p>                                                                                                                                                                                                                                                                                                                             |
|            | <p><b>mso-layout-flow-alt</b></p> <p>Specifies the alternate layout flow for text in textboxes. This property is used instead of layout-flow when the layout flow is from bottom to top for non-ideographic languages. Its only value is bottom-to-top.</p>                                                                                                                                                                                       |
|            | <p><b>mso-next-textbox</b></p> <p>Specifies the ID of the next textbox in a series. Used to keep track of a set of linked textboxes. Default is no value.</p>                                                                                                                                                                                                                                                                                     |
|            | <p><b>mso-rotate</b></p> <p>Specifies a specific rotation value for text in a textbox. Default is 0. Allowed values are:</p> <ul style="list-style-type: none"> <li>• 0</li> <li>• 90</li> <li>• 180</li> <li>• -90</li> </ul>                                                                                                                                                                                                                    |
|            | <p><b>mso-text-scale</b></p> <p>Specifies the scaling factor for fitting text to shapes. Default is 0. This property is only used if mso-fit-text-to-shape is true.</p>                                                                                                                                                                                                                                                                           |

| Attributes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Description                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                    |              |                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | v-text-anchor                                                                                                                                                                                                                                                                      | <p>Specifies the vertical anchoring of text in a textbox. Default is top. The alignment of a text anchor only becomes evident if mso-fit-text-to-shape is false. This property is different from the vertical-align CSS property, which is used for ideographic languages. Allowed values are:</p> <ul style="list-style-type: none"><li>• top</li><li>• middle</li><li>• bottom</li><li>• top-center</li><li>• middle-center</li><li>• bottom-center</li><li>• top-baseline</li><li>• bottom-baseline</li><li>• top-center-baseline</li><li>• bottom-center-baseline</li></ul> |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                    |              |                                                                                                                                                                                                                                       |
| <p>The following properties are only used by the textpath element (§19.1.2.23):</p> <table><tr><th>Property</th><th>Description</th></tr><tr><td>font</td><td>Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family.</td></tr><tr><td>font-family</td><td>Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property.</td></tr><tr><td>font-size</td><td>Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property.</td></tr><tr><td>font-style</td><td><p>Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are:</p><ul style="list-style-type: none"><li>• normal</li><li>• italic</li><li>• oblique - Treated the same as italic.</li></ul></td></tr><tr><td>font-variant</td><td><p>Specifies the variant style of a font. Default is normal. The values are the same as those of the CSS font-variant property. Allowed values are:</p><ul style="list-style-type: none"><li>• normal</li><li>• small-caps</li></ul></td></tr></table> |                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Property | Description | font | Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family. | font-family | Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property. | font-size | Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property. | font-style | <p>Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are:</p> <ul style="list-style-type: none"><li>• normal</li><li>• italic</li><li>• oblique - Treated the same as italic.</li></ul> | font-variant | <p>Specifies the variant style of a font. Default is normal. The values are the same as those of the CSS font-variant property. Allowed values are:</p> <ul style="list-style-type: none"><li>• normal</li><li>• small-caps</li></ul> |
| Property                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Description                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                    |              |                                                                                                                                                                                                                                       |
| font                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family.                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                    |              |                                                                                                                                                                                                                                       |
| font-family                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property.                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                    |              |                                                                                                                                                                                                                                       |
| font-size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property.                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                    |              |                                                                                                                                                                                                                                       |
| font-style                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are:</p> <ul style="list-style-type: none"><li>• normal</li><li>• italic</li><li>• oblique - Treated the same as italic.</li></ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                    |              |                                                                                                                                                                                                                                       |
| font-variant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <p>Specifies the variant style of a font. Default is normal. The values are the same as those of the CSS font-variant property. Allowed values are:</p> <ul style="list-style-type: none"><li>• normal</li><li>• small-caps</li></ul>                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                    |              |                                                                                                                                                                                                                                       |

| Attributes            | Description                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|--------|----------------------|---------|-----|-----|-----|-----|------|------------------|--------|-----|-----|-----|-----|-----|
|                       | font-weight                                                                                                                                                                                                                                                                                    | <p>Specifies the thickness of the letters of the font. Default is normal. The values are the same as those of the CSS font-weight property. Allowed values are:</p> <table><tr><th>Value</th><th>Description</th></tr><tr><td>normal</td><td rowspan="6">Treated as non-bold.</td></tr><tr><td>lighter</td></tr><tr><td>100</td></tr><tr><td>200</td></tr><tr><td>300</td></tr><tr><td>400</td></tr><tr><td>bold</td><td rowspan="7">Treated as bold.</td></tr><tr><td>bolder</td></tr><tr><td>500</td></tr><tr><td>600</td></tr><tr><td>700</td></tr><tr><td>800</td></tr><tr><td>900</td></tr></table> | Value | Description | normal | Treated as non-bold. | lighter | 100 | 200 | 300 | 400 | bold | Treated as bold. | bolder | 500 | 600 | 700 | 800 | 900 |
|                       | Value                                                                                                                                                                                                                                                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|                       | normal                                                                                                                                                                                                                                                                                         | Treated as non-bold.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|                       | lighter                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|                       | 100                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 200                   |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 300                   |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 400                   |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| bold                  | Treated as bold.                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| bolder                |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 500                   |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 600                   |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 700                   |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 800                   |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 900                   |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| mso-text-shadow       | Specifies whether a shadow is applied to the text on a text path. Default is false.                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| text-decoration       | <p>Specifies the style of text decoration. Default is none. The values are the same as those of the CSS text-decoration property. Allowed values are:</p> <ul style="list-style-type: none"><li>• none</li><li>• underline</li><li>• overline</li><li>• line-through</li><li>• blink</li></ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| v-rotate-letters      | Specifies whether the letters of the text are rotated counterclockwise by 90 degrees. Default is false.                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| v-same-letter-heights | Specifies whether all letters are the same height regardless of initial case. If true, the lowercase letters are stretched to the                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |

| Attributes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Description                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | height of the uppercase letters. Default is false.                                                                                                                                                                                                                                                                                                                                     |
| v-text-align                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <p>Specifies the alignment of text. Default is left. Allowed values are:</p> <ul style="list-style-type: none"> <li>• left</li> <li>• right</li> <li>• center</li> <li>• justify</li> <li>• letter-justify - Distributes the extra space between the letters.</li> <li>• stretch-justify - Stretches the letters to fill in the space.</li> </ul>                                      |
| v-text-kern                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Specifies whether kerning is turned on. Default is false.                                                                                                                                                                                                                                                                                                                              |
| v-text-reverse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Specifies whether the layout order of rows is reversed. Default is false. This is used for vertical text layout.                                                                                                                                                                                                                                                                       |
| v-text-spacing-mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p>Specifies the mode for letter spacing. Default is tightening. This property determines whether space is removed between each letter (tightening) or added between each letter (tracking). The amount of letter spacing change is defined by the v-text-spacing property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• tightening</li> <li>• tracking</li> </ul> |
| v-text-spacing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Specifies the amount of spacing for text in 100ths of single line spacing. Default is 100.                                                                                                                                                                                                                                                                                             |
| <p>The line (§19.1.2.12), polyline (§19.1.2.15) and curve (§19.1.2.3) elements ignore the following properties:</p> <ul style="list-style-type: none"> <li>• top</li> <li>• left</li> <li>• width</li> <li>• height</li> </ul> <p>The following properties are not inherited by an element that references a shapetype element (§19.1.2.20) via the id attribute:</p> <ul style="list-style-type: none"> <li>• flip</li> <li>• height</li> <li>• left</li> <li>• margin-left</li> <li>• margin-top</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                        |

| Attributes | Description                                                                                                                                                                                                                                                |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <ul style="list-style-type: none"> <li>• position</li> <li>• rotation</li> <li>• top</li> <li>• visibility</li> <li>• width</li> <li>• z-index</li> </ul> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |

[Note: The W3C XML Schema definition of this element's content model (CT\_Textbox) is located in §A.6.1. *end note*]

### 19.1.2.23 **textpath** (Text Layout Path)

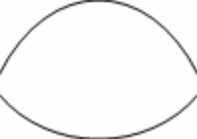
This element is used to define a vector path based on the text data, font and font styles supplied. The path which results is then mapped into the region defined by the *v* attribute of the shape's path (§19.1.2.14).

[Example:

```
<v:curve from="50,100" to="400,100"
  control1="200,200" control2="300,200">
  <v:stroke color="blue"/>
  <v:fill color="yellow" color2="green" type="gradient"/>
  <v:path textpathok="true"/>
  <v:textpath on="true" style="font:normal normal normal 36pt Arial"
    fitpath="true" string="Hello, VML!"/>
</v:curve>
```

*end example]*

| Parent Elements                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arc (§19.1.2.1); background (Part 1, §17.2.1); curve (§19.1.2.3); group (§19.1.2.7); image (§19.1.2.10); line (§19.1.2.12); object (Part 1, §17.3.3.19); oval (§19.1.2.13); pict (§14.2.2.2); pict (§14.5.1); polyline (§19.1.2.15); rect (§19.1.2.16); roundrect (§19.1.2.17); shape (§19.1.2.19); shapetype (§19.1.2.20) |

| Attributes                                                                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                |                                                                                   |                 |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------|-----------------|
| fitpath (Path Fit Toggle)                                                         | <p>Specifies whether the text fits the path of a shape. If true, sizes the text to fill the path it lies out on. Default is false.</p> <p>[Example:</p> <pre>&lt;v:textpath on="true" fitpath="true"   string="VML"&gt; &lt;/v:textpath&gt;</pre> <table border="1" data-bbox="418 562 1205 718"> <tr> <td></td><td>fitpath="true"</td></tr> <tr> <td></td><td>fitpath="false"</td></tr> </table> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                            |  | fitpath="true" |  | fitpath="false" |
|  | fitpath="true"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                   |                |                                                                                   |                 |
|  | fitpath="false"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                   |                |                                                                                   |                 |
| fitshape (Shape Fit Toggle)                                                       | <p>Specifies whether the text fits the bounding box of a shape. If true, the text is stretched out to the edges of the box that defines the entire shape. Default is false.</p> <p>[Example: When fitshape is false, the text is drawn along the first part of the path. When true, the text is stretched to fit the entire enclosed area of the shape.</p> <pre>&lt;v:shape style="width:100;height:100"   path="m 0,500 c 250,0 750,0 1000,500 e   m 0,600 c 250,900 750,900 1000,600 e"   fillcolor="yellow" strokecolor="maroon"&gt;   &lt;v:path textpathok="t"/&gt;   &lt;v:textpath on="t" fitshape="t" string="VML"/&gt; &lt;/v:shape&gt;</pre>  <p>The raw path stroke is:</p>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |                                                                                   |                |                                                                                   |                 |

| Attributes                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>id</b> (Unique Identifier)           | <p>Specifies a unique identifier that can be used to reference a VML object.</p> <p>Default is no value.</p> <p>[Example:</p> <pre>&lt;v:shape ... id="myShape" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                  |
| <b>on</b> (Text Path Toggle)            | <p>Specifies whether the text is displayed on the textpath. Default is false. The textpathok attribute of the path element (§19.1.2.14) overrides this.</p> <p>[Example:</p> <pre>&lt;v:line from="50,100" to="100,100"&gt;   &lt;v:path textpathok="false"/&gt;   &lt;v:textpath on="true" string="VML"/&gt; &lt;/v:line&gt;</pre> <hr/> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                  |
| <b>string</b> (Text Path Text)          | <p>Specifies the text of the text path. Default is no value.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>style</b> (Shape Styling Properties) | <p>Specifies the CSS2 styling properties of the shape. The CSS2 (Cascading Style Sheets, Level 2) specification, a Recommendation of the World Wide Web Consortium, is available here: <a href="http://www.w3.org/TR/REC-CSS2">http://www.w3.org/TR/REC-CSS2</a>.</p> <p>This attribute uses a semi-colon delimited list of “name:value” pairs, the syntax defined by section 4.1.8 of the CSS2 specification for grouped declarations (without the surrounding braces). The following tables define the allowed properties and the VML treatment of each.</p> <p>[Example:</p> <pre>&lt;v:shape ... style='position:absolute;width:100pt;height:50pt' ... &gt;</pre> |



| Attributes    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | <div data-bbox="415 247 617 315"> <code>&lt;/v:shape&gt;</code><br/> <i>end example]</i> </div> <table border="1" data-bbox="415 352 1477 1890"> <thead> <tr> <th data-bbox="415 352 662 399">Property</th><th data-bbox="662 352 1477 399">Description</th></tr> </thead> <tbody> <tr> <td data-bbox="415 399 662 667">flip</td><td data-bbox="662 399 1477 667"> <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul> </td></tr> <tr> <td data-bbox="415 667 662 1077">height</td><td data-bbox="662 667 1477 1077"> <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> </td></tr> <tr> <td data-bbox="415 1077 662 1556">left</td><td data-bbox="662 1077 1477 1556"> <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul> </td></tr> <tr> <td data-bbox="415 1556 662 1890">margin-bottom</td><td data-bbox="662 1556 1477 1890"> <p>Specifies the position of the bottom of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or</li> </ul> </td></tr> </tbody> </table> | Property | Description | flip | <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul> | height | <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> | left | <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul> | margin-bottom | <p>Specifies the position of the bottom of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or</li> </ul> |
| Property      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| flip          | <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| height        | <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| left          | <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| margin-bottom | <p>Specifies the position of the bottom of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| Attributes | Description             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                         | <p>ex). If no units are given, pixels (px) is assumed.</p> <ul style="list-style-type: none"> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|            | margin-left             | <p>Specifies the position of the left of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>   |
|            | margin-right            | <p>Specifies the position of the right of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul> |
|            | margin-top              | <p>Specifies the position of the top of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul>   |
|            | mso-position-horizontal | <p>Specifies the horizontal positioning data for objects in WordprocessingML documents. Default is absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• absolute</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| Attributes | Description                      |                                                                                                                                                                                                                                                                                                   |
|------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                                  | <ul style="list-style-type: none"> <li>• left</li> <li>• center</li> <li>• right</li> <li>• inside</li> <li>• outside</li> </ul>                                                                                                                                                                  |
|            | mso-position-horizontal-relative | <p>Specifies relative horizontal position data for objects in WordprocessingML documents. This modifies the mso-position-horizontal property. Default is text. Allowed values are:</p> <ul style="list-style-type: none"> <li>• margin</li> <li>• page</li> <li>• text</li> <li>• char</li> </ul> |
|            | mso-position-vertical            | <p>Specifies the vertical positioning data for objects in WordprocessingML documents. Default is absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• absolute</li> <li>• top</li> <li>• center</li> <li>• bottom</li> <li>• inside</li> <li>• outside</li> </ul>           |
|            | mso-position-vertical-relative   | <p>Specifies relative vertical position data for objects in WordprocessingML documents. This modifies the mso-position-vertical property. Default is text. Allowed values are:</p> <ul style="list-style-type: none"> <li>• margin</li> <li>• page</li> <li>• text</li> <li>• line</li> </ul>     |
|            | mso-wrap-distance-bottom         | <p>Specifies the distance from the bottom of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>               |
|            | mso-wrap-distance-left           | <p>Specifies the distance from the left side of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the</p>                                                                                         |

| Attributes              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | shape to include the margin areas. This property does not change the origin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| mso-wrap-distance-right | Specifies the distance from the right side of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| mso-wrap-distance-top   | Specifies the distance from the top of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| mso-wrap-edited         | Specifies whether the wrap coordinates were customized by the user. If the wrap coordinates are generated by an editor, this property is true; otherwise they were customized by a user. Default is false.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| mso-wrap-style          | <p>Specifies the wrapping mode for text in shapes in WordprocessingML documents. Default is square. Allowed values are:</p> <ul style="list-style-type: none"> <li>• square - Wraps text inside the shape in a square.</li> <li>• none - Text does not wrap.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| position                | <p>Specifies the kind of positioning used to place an element. Default is static. When the element is contained inside a group, this property shall be absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• static - The element is positioned according to the normal flow of the page. The top and left properties are ignored. If the object is anchored inline, this value is used.</li> <li>• absolute - The element is positioned relative to the parent, using the top and left properties.</li> <li>• relative - The element is positioned according to the normal flow of the page, but the top and left properties are used. The overlap of overlapping elements is governed by the z-index property.</li> </ul> |
| rotation                | Specifies the angle that a shape is rotated, in degrees. Default is 0. Positive angles are clockwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| top                     | Specifies the position of the top of the containing block of the shape relative to the element above it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:                                                                                                                                                                                                                                                                                                                                                                                                         |

| Attributes                                                                                                                                       | Description |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |             |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|
|                                                                                                                                                  |             | <ul style="list-style-type: none"><li>• auto - Default position of an element in the flow of the page.</li><li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li><li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li></ul>                                                                                                                                                                                                             |          |             |
|                                                                                                                                                  | visibility  | <p>Specifies whether a shape is displayed. Only inherit and hidden are used; any other values are mapped to inherit. Default is inherit. Allowed values are:</p> <ul style="list-style-type: none"><li>• hidden - The shape is not visible, but is still part of the flow of the objects in the browser. Mouse events are not processed.</li><li>• inherit - The visibility state is inherited from the parent of the shape.</li></ul>                                                                                                                                                                              |          |             |
|                                                                                                                                                  | width       | <p>Specifies the width of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"><li>• auto - Default position of an element in the flow of the page.</li><li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li><li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li></ul> |          |             |
|                                                                                                                                                  | z-index     | <p>Specifies the display order of overlapping shapes. Default is 0. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"><li>• auto - Uses the order that the shapes appear in the page, bottom to top.</li><li>• &lt;order&gt;- A number that represents the stacking precedence. Shapes with higher numbers are placed on top of those with lower numbers. Negative numbers are allowed.</li></ul>                                                                                                                                               |          |             |
| <p>The following properties are only used by the textbox element (§19.1.2.22):</p> <table><tr><th>Property</th><th>Description</th></tr></table> |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Property | Description |
| Property                                                                                                                                         | Description |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |             |

| Attributes | Description                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <p><b>direction</b></p> <p>Specifies the direction of the text in the textbox. Default is ltr. This property is superceded by the mso-direction-alt property if that is specified. Allowed values are:</p> <ul style="list-style-type: none"> <li>• ltr - Text is displayed left-to-right.</li> <li>• rtl - Text is displayed right-to-left.</li> </ul>                                                                                           |
|            | <p><b>layout-flow</b></p> <p>Determines the flow of the text layout in a textbox. Default is horizontal. Allowed values are:</p> <ul style="list-style-type: none"> <li>• horizontal - Text is displayed horizontally.</li> <li>• vertical - Text is displayed vertically.</li> <li>• vertical-ideographic - Ideographic text is displayed vertically.</li> <li>• horizontal-ideographic - Ideographic text is displayed horizontally.</li> </ul> |
|            | <p><b>mso-direction-alt</b></p> <p>Specifies an alternate direction for text in textboxes. Overrides the direction property. The only allowed value is context.</p>                                                                                                                                                                                                                                                                               |
|            | <p><b>mso-fit-shape-to-text</b></p> <p>Specifies whether the shape stretches to fit the text in the textbox. Default is false.</p>                                                                                                                                                                                                                                                                                                                |
|            | <p><b>mso-fit-text-to-shape</b></p> <p>Specifies whether the text stretches to fit the textbox. Default is false.</p>                                                                                                                                                                                                                                                                                                                             |
|            | <p><b>mso-layout-flow-alt</b></p> <p>Specifies the alternate layout flow for text in textboxes. This property is used instead of layout-flow when the layout flow is from bottom to top for non-ideographic languages. Its only value is bottom-to-top.</p>                                                                                                                                                                                       |
|            | <p><b>mso-next-textbox</b></p> <p>Specifies the ID of the next textbox in a series. Used to keep track of a set of linked textboxes. Default is no value.</p>                                                                                                                                                                                                                                                                                     |
|            | <p><b>mso-rotate</b></p> <p>Specifies a specific rotation value for text in a textbox. Default is 0. Allowed values are:</p> <ul style="list-style-type: none"> <li>• 0</li> <li>• 90</li> <li>• 180</li> <li>• -90</li> </ul>                                                                                                                                                                                                                    |
|            | <p><b>mso-text-scale</b></p> <p>Specifies the scaling factor for fitting text to shapes. Default is 0. This property is only used if mso-fit-text-to-shape is true.</p>                                                                                                                                                                                                                                                                           |

| Attributes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Description                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                    |              |                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | v-text-anchor                                                                                                                                                                                                                                                                      | <p>Specifies the vertical anchoring of text in a textbox. Default is top. The alignment of a text anchor only becomes evident if mso-fit-text-to-shape is false. This property is different from the vertical-align CSS property, which is used for ideographic languages. Allowed values are:</p> <ul style="list-style-type: none"><li>• top</li><li>• middle</li><li>• bottom</li><li>• top-center</li><li>• middle-center</li><li>• bottom-center</li><li>• top-baseline</li><li>• bottom-baseline</li><li>• top-center-baseline</li><li>• bottom-center-baseline</li></ul> |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                    |              |                                                                                                                                                                                                                                       |
| <p>The following properties are only used by the textpath element (§19.1.2.23):</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                    |              |                                                                                                                                                                                                                                       |
| <table><tr><th>Property</th><th>Description</th></tr><tr><td>font</td><td>Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family.</td></tr><tr><td>font-family</td><td>Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property.</td></tr><tr><td>font-size</td><td>Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property.</td></tr><tr><td>font-style</td><td><p>Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are:</p><ul style="list-style-type: none"><li>• normal</li><li>• italic</li><li>• oblique - Treated the same as italic.</li></ul></td></tr><tr><td>font-variant</td><td><p>Specifies the variant style of a font. Default is normal. The values are the same as those of the CSS font-variant property. Allowed values are:</p><ul style="list-style-type: none"><li>• normal</li><li>• small-caps</li></ul></td></tr></table> |                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Property | Description | font | Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family. | font-family | Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property. | font-size | Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property. | font-style | <p>Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are:</p> <ul style="list-style-type: none"><li>• normal</li><li>• italic</li><li>• oblique - Treated the same as italic.</li></ul> | font-variant | <p>Specifies the variant style of a font. Default is normal. The values are the same as those of the CSS font-variant property. Allowed values are:</p> <ul style="list-style-type: none"><li>• normal</li><li>• small-caps</li></ul> |
| Property                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Description                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                    |              |                                                                                                                                                                                                                                       |
| font                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family.                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                    |              |                                                                                                                                                                                                                                       |
| font-family                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property.                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                    |              |                                                                                                                                                                                                                                       |
| font-size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property.                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                    |              |                                                                                                                                                                                                                                       |
| font-style                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <p>Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are:</p> <ul style="list-style-type: none"><li>• normal</li><li>• italic</li><li>• oblique - Treated the same as italic.</li></ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                    |              |                                                                                                                                                                                                                                       |
| font-variant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <p>Specifies the variant style of a font. Default is normal. The values are the same as those of the CSS font-variant property. Allowed values are:</p> <ul style="list-style-type: none"><li>• normal</li><li>• small-caps</li></ul>                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                    |              |                                                                                                                                                                                                                                       |

| Attributes            | Description                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|--------|----------------------|---------|-----|-----|-----|-----|------|------------------|--------|-----|-----|-----|-----|-----|
|                       | font-weight                                                                                                                                                                                                                                                                                    | <p>Specifies the thickness of the letters of the font. Default is normal. The values are the same as those of the CSS font-weight property. Allowed values are:</p> <table><tr><th>Value</th><th>Description</th></tr><tr><td>normal</td><td rowspan="6">Treated as non-bold.</td></tr><tr><td>lighter</td></tr><tr><td>100</td></tr><tr><td>200</td></tr><tr><td>300</td></tr><tr><td>400</td></tr><tr><td>bold</td><td rowspan="7">Treated as bold.</td></tr><tr><td>bolder</td></tr><tr><td>500</td></tr><tr><td>600</td></tr><tr><td>700</td></tr><tr><td>800</td></tr><tr><td>900</td></tr></table> | Value | Description | normal | Treated as non-bold. | lighter | 100 | 200 | 300 | 400 | bold | Treated as bold. | bolder | 500 | 600 | 700 | 800 | 900 |
|                       | Value                                                                                                                                                                                                                                                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|                       | normal                                                                                                                                                                                                                                                                                         | Treated as non-bold.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|                       | lighter                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
|                       | 100                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 200                   |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 300                   |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 400                   |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| bold                  | Treated as bold.                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| bolder                |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 500                   |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 600                   |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 700                   |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 800                   |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| 900                   |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| mso-text-shadow       | Specifies whether a shadow is applied to the text on a text path. Default is false.                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| text-decoration       | <p>Specifies the style of text decoration. Default is none. The values are the same as those of the CSS text-decoration property. Allowed values are:</p> <ul style="list-style-type: none"><li>• none</li><li>• underline</li><li>• overline</li><li>• line-through</li><li>• blink</li></ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| v-rotate-letters      | Specifies whether the letters of the text are rotated counterclockwise by 90 degrees. Default is false.                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |
| v-same-letter-heights | Specifies whether all letters are the same height regardless of initial case. If true, the lowercase letters are stretched to the                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                      |         |     |     |     |     |      |                  |        |     |     |     |     |     |



| Attributes                                                                                                                                                                                                                                                              | Description                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                         | height of the uppercase letters. Default is false.                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                         | v-text-align<br>Specifies the alignment of text. Default is left. Allowed values are: <ul style="list-style-type: none"> <li>• left</li> <li>• right</li> <li>• center</li> <li>• justify</li> <li>• letter-justify - Distributes the extra space between the letters.</li> <li>• stretch-justify - Stretches the letters to fill in the space.</li> </ul>                                             |
|                                                                                                                                                                                                                                                                         | v-text-kern<br>Specifies whether kerning is turned on. Default is false.                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                         | v-text-reverse<br>Specifies whether the layout order of rows is reversed. Default is false. This is used for vertical text layout.                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                         | v-text-spacing-mode<br>Specifies the mode for letter spacing. Default is tightening. This property determines whether space is removed between each letter (tightening) or added between each letter (tracking). The amount of letter spacing change is defined by the v-text-spacing property. Allowed values are: <ul style="list-style-type: none"> <li>• tightening</li> <li>• tracking</li> </ul> |
|                                                                                                                                                                                                                                                                         | v-text-spacing<br>Specifies the amount of spacing for text in 100ths of single line spacing. Default is 100.                                                                                                                                                                                                                                                                                           |
| The line (§19.1.2.12), polyline (§19.1.2.15) and curve (§19.1.2.3) elements ignore the following properties: <ul style="list-style-type: none"> <li>• top</li> <li>• left</li> <li>• width</li> <li>• height</li> </ul>                                                 |                                                                                                                                                                                                                                                                                                                                                                                                        |
| The following properties are not inherited by an element that references a shapetype element (§19.1.2.20) via the id attribute: <ul style="list-style-type: none"> <li>• flip</li> <li>• height</li> <li>• left</li> <li>• margin-left</li> <li>• margin-top</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                                        |

| Attributes                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                              | <ul style="list-style-type: none"> <li>• position</li> <li>• rotation</li> <li>• top</li> <li>• visibility</li> <li>• width</li> <li>• z-index</li> </ul> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| trim (Text Path Trim Toggle) | <p>Specifies whether extra space is removed above and below the text. If true, space reserved for ascenders and descenders is removed. Default is false.</p> <p>[Example: The shape path is duplicated as a second shape and overlaid on the textpath for illustrative purposes:</p> <pre> &lt;v:shape style=" width:100;height:100"   path="m 0,500 c 250,0 750,0 1000,500 e   m 0,600 c 250,900 750,900 1000,600 e"   fillcolor="yellow" strokecolor="maroon"&gt;   &lt;v:path textpathok="true"/&gt;   &lt;v:textpath on="true" fitshape="true"     string="vml" trim="true"/&gt; &lt;/v:shape&gt; </pre> <div style="display: flex; align-items: center; justify-content: center;">  <div style="margin-left: 10px;">trim="true"</div> </div> <div style="display: flex; align-items: center; justify-content: center; margin-top: 10px;">  <div style="margin-left: 10px;">trim="false"</div> </div> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| xscale (Text X-Scaling)      | <p>Specifies whether a straight text path is used instead of the shape path. If true, the text runs along a path from left to right along the x value of the lower boundary of the shape. Default is false.</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

[Note: The W3C XML Schema definition of this element's content model ([CT\\_TextPath](#)) is located in §A.6.1. *end note*]

### 19.1.3 Simple Types

The following additional simple type information in the urn:schemas-microsoft-com:vml namespace is used for documents of a transitional conformance class.

#### 19.1.3.1 ST\_EditAs (Shape Grouping Types)

This simple type specifies the different meanings of a group of shapes.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value                     | Description                                                                   |
|---------------------------------------|-------------------------------------------------------------------------------|
| bullseye (Bullseye Diagram)           | Specifies that the group represents a bulls-eye diagram.                      |
| canvas (Shape Canvas)                 | Specifies that the group is a regular group and does not represent a diagram. |
| cycle (Cycle Diagram)                 | Specifies that the group represents a cycle diagram.                          |
| orgchart (Organization Chart Diagram) | Specifies that the group represents an organization chart.                    |
| radial (Radial Diagram)               | Specifies that the group represents a radial diagram.                         |
| stacked (Pyramid Diagram)             | Specifies that the group represents a pyramid diagram.                        |
| venn (Venn Diagram)                   | Specifies that the group represents a Venn diagram.                           |

| Referenced By            |
|--------------------------|
| group@editas (§19.1.2.7) |

[Note: The W3C XML Schema definition of this simple type's content model ([ST\\_EditAs](#)) is located in §A.6.1. *end note*]

#### 19.1.3.2 ST\_Ext (VML Extension Handling Behaviors)

This simple type specifies VML extension handling behaviors.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value               | Description                                                                                                                                  |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| backwardCompatible (Renderable) | Specifies that the VML entity may be rendered by ignoring the extension information. If edited, the extension information must be discarded. |
| edit (Editable)                 | Specifies that the VML entity may be safely rendered                                                                                         |

| Enumeration Value     | Description                                                                                                                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | and edited without invalidating the extension information.                                                                                                                                                      |
| view (Not renderable) | Specifies that the VML entity is not be renderable without understanding the extension information. If the extension information cannot be understood, the downlevel image should be used to render the object. |

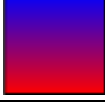
| Referenced By                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| bottom@ext (§19.2.2.1); callout@ext (§19.2.2.2); colormenu@ext (§19.2.2.4); colormru@ext (§19.2.2.5); column@ext (§19.2.2.6); complex@ext (§19.2.2.7); diagram@ext (§19.2.2.8); extrusion@ext (§19.2.2.11); fill@ext (§19.2.2.13); idmap@ext (§19.2.2.14); left@ext (§19.2.2.16); lock@ext (§19.2.2.18); regrouptable@ext (§19.2.2.23); rel@ext (§19.2.2.24); relationtable@ext (§19.2.2.25); right@ext (§19.2.2.26); rules@ext (§19.2.2.27); shapedefaults@ext (§19.2.2.28); shapelayout@ext (§19.2.2.29); signatureline@ext (§19.2.2.30); skew@ext (§19.2.2.31); top@ext (§19.2.2.32) |

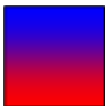
[Note: The W3C XML Schema definition of this simple type's content model (ST\_Ext) is located in §A.6.1. *end note*]

### 19.1.3.3 ST\_FillMethod (Gradient Fill Computation Type)

This simple type specifies ways in which a gradient fill is computed.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value                | Description                                                                                               |
|----------------------------------|-----------------------------------------------------------------------------------------------------------|
| any (Application Default Fill)   | Default blend<br>      |
| linear (Linear Fill)             | Linear blend<br>       |
| linear sigma (Linear Sigma Fill) | Linear sigma blend<br> |
| none (No Gradient Fill)          | No blend<br>           |
| sigma (Sigma Fill)               | Sigma blend<br>        |

| Enumeration Value | Description                                                                       |
|-------------------|-----------------------------------------------------------------------------------|
|                   |  |

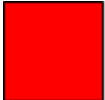
| Referenced By           |
|-------------------------|
| fill@method (§19.1.2.5) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_FillMethod) is located in §A.6.1.  
end note]

#### 19.1.3.4 ST\_FillType (Shape Fill Type)

This simple type specifies the types for fills applied to a shape.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value                | Description                                                                                                                                                    |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| frame (Stretch Image to Fit)     | The image is stretched to fill the shape.<br>                                |
| gradient (Linear Gradient)       | The fill colors blend together in a linear gradient from bottom to top.<br> |
| gradientRadial (Radial Gradient) | The fill colors blend together in a radial gradient.<br>                    |
| pattern (Image Pattern)          | The image is used to create a pattern using the fill colors.<br>            |
| solid (Solid Fill)               | The fill pattern is a solid color.<br>                                      |
| tile (Tiled Image)               | The fill image is tiled.<br>                                                |

| Referenced By                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| bottom@filltype (§19.2.2.1); column@filltype (§19.2.2.6); fill@type (§19.1.2.5); left@filltype (§19.2.2.16); right@filltype (§19.2.2.26); stroke@filltype (§19.1.2.21); top@filltype (§19.2.2.32) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_FillType) is located in §A.6.1. end note]

#### 19.1.3.5 ST\_ImageAspect (Image Scaling Behavior)

This simple type specifies the scaling behaviors for an image applied to a stroke.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value            | Description                                                                                                                 |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| atLeast (At Least)           | Image is at least as big as imagesize.<br> |
| atMost (At Most)             | Image is no bigger than imagesize.<br>   |
| ignore (Ignore Aspect Ratio) | Ignore aspect issues.<br>                |

| Referenced By                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| bottom@imageaspect (§19.2.2.1); column@imageaspect (§19.2.2.6); fill@aspect (§19.1.2.5); left@imageaspect (§19.2.2.16); right@imageaspect (§19.2.2.26); stroke@imageaspect (§19.1.2.21); top@imageaspect (§19.2.2.32) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_ImageAspect) is located in §A.6.1. end note]

#### 19.1.3.6 ST\_ShadowType (Shadow Type)

This simple type specifies the types of shadows applied to a shape.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value                | Description                                                                          |
|----------------------------------|--------------------------------------------------------------------------------------|
| double (Double Shadow)           | Double shadow. color2 and offset2 are used for the second shadow's color and offset. |
| emboss (Embossed Shadow)         | The shadow has an embossed look. Similar to double.                                  |
| perspective (Perspective Shadow) | Perspective shadow.                                                                  |
| single (Single Shadow)           | Single shadow.                                                                       |

| Referenced By            |
|--------------------------|
| shadow@type (§19.1.2.18) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_ShadowType) is located in §A.6.1. *end note*]

### 19.1.3.7 ST\_StrokeArrowLength (Stroke Arrowhead Length)

This simple type specifies the lengths of a stroke arrowhead.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value         | Description        |
|---------------------------|--------------------|
| long (Long Arrowhead)     | Long length<br>→   |
| medium (Medium Arrowhead) | Medium length<br>→ |
| short (Short Arrowhead)   | Short length<br>→  |

| Referenced By                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| bottom@endarrowlength (§19.2.2.1); bottom@startarrowlength (§19.2.2.1); column@endarrowlength (§19.2.2.6); column@startarrowlength (§19.2.2.6); left@endarrowlength (§19.2.2.16); left@startarrowlength (§19.2.2.16); right@endarrowlength (§19.2.2.26); right@startarrowlength (§19.2.2.26); stroke@endarrowlength (§19.1.2.21); stroke@startarrowlength (§19.1.2.21); top@endarrowlength (§19.2.2.32); top@startarrowlength (§19.2.2.32) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_StrokeArrowLength) is located in §A.6.1. *end note*]

### 19.1.3.8 ST\_StrokeArrowType (Stroke Arrowhead Type)

This simple type specifies the types of arrowhead for a stroke.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value           | Description                                                                                                   |
|-----------------------------|---------------------------------------------------------------------------------------------------------------|
| block (Block Arrowhead)     | Block arrowhead<br>          |
| classic (Classic Arrowhead) | Classic curved arrowhead<br> |
| diamond (Diamond Arrowhead) | Diamond arrowhead<br>        |
| none (No Arrowhead)         | No arrowhead<br>             |
| open (Open Arrowhead)       | Open arrowhead<br>           |
| oval (Oval Arrowhead)       | Round arrowhead<br>          |

| Referenced By                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| bottom@endarrow (§19.2.2.1); bottom@startarrow (§19.2.2.1); column@endarrow (§19.2.2.6); column@startarrow (§19.2.2.6); left@endarrow (§19.2.2.16); left@startarrow (§19.2.2.16); right@endarrow (§19.2.2.26); right@startarrow (§19.2.2.26); stroke@endarrow (§19.1.2.21); stroke@startarrow (§19.1.2.21); top@endarrow (§19.2.2.32); top@startarrow (§19.2.2.32) |

[Note: The W3C XML Schema definition of this simple type's content model ([ST\\_StrokeArrowType](#)) is located in §A.6.1. end note]

### 19.1.3.9 ST\_StrokeArrowWidth (Stroke Arrowhead Width)

This simple type specifies the widths of a stroke arrowhead.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value         | Description                                                                                         |
|---------------------------|-----------------------------------------------------------------------------------------------------|
| medium (Medium Arrowhead) | Medium width<br> |
| narrow (Narrow Arrowhead) | Narrow width<br> |
| wide (Wide Arrowhead)     | Wide width<br>   |



| Referenced By                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| bottom@endarrowwidth (§19.2.2.1); bottom@startarrowwidth (§19.2.2.1); column@endarrowwidth (§19.2.2.6); column@startarrowwidth (§19.2.2.6); left@endarrowwidth (§19.2.2.16); left@startarrowwidth (§19.2.2.16); right@endarrowwidth (§19.2.2.26); right@startarrowwidth (§19.2.2.26); stroke@endarrowwidth (§19.1.2.21); stroke@startarrowwidth (§19.1.2.21); top@endarrowwidth (§19.2.2.32); top@startarrowwidth (§19.2.2.32) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_StrokeArrowWidth) is located in §A.6.1. *end note*]

#### 19.1.3.10 ST\_StrokeEndCap (Stroke End Cap Type)

This simple type specifies the styles for the end of a stroke.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value   | Description                                                                                       |
|---------------------|---------------------------------------------------------------------------------------------------|
| flat (Flat End)     | Flat end<br>    |
| round (Round End)   | Round end<br>  |
| square (Square End) | Square end<br> |

| Referenced By                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| bottom@endcap (§19.2.2.1); column@endcap (§19.2.2.6); left@endcap (§19.2.2.16); right@endcap (§19.2.2.26); stroke@endcap (§19.1.2.21); top@endcap (§19.2.2.32) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_StrokeEndCap) is located in §A.6.1. *end note*]

#### 19.1.3.11 ST\_StrokeJoinStyle (Line Join Type)

This simple type specifies the join styles for a polyline (§19.1.2.15).

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value   | Description                                                                                       |
|---------------------|---------------------------------------------------------------------------------------------------|
| bevel (Bevel Joint) | Bevel joint<br> |
| miter (Miter Joint) | Miter joint<br> |
| round (Round Joint) | Round joint<br> |

| Referenced By                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| bottom@joinstyle (§19.2.2.1); column@joinstyle (§19.2.2.6); left@joinstyle (§19.2.2.16); right@joinstyle (§19.2.2.26); stroke@joinstyle (§19.1.2.21); top@joinstyle (§19.2.2.32) |

[Note: The W3C XML Schema definition of this simple type's content model ([ST\\_StrokeJoinStyle](#)) is located in §A.6.1. *end note*]

#### 19.1.3.12 ST\_StrokeLineStyle (Stroke Line Style)

This simple type specifies the line styles for a stroke.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value                                | Description                                                                                                          |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| single (Single Line)                             | Single line<br>                   |
| thickBetweenThin (Thick Line Between Thin Lines) | Thick line between thin lines<br> |
| thickThin (Thick Line Outside Thin Line)         | Thick line outside thin line<br>  |
| thinThick (Thin Line Outside Thick Line)         | Thin line outside thick line<br>  |

| Enumeration Value         | Description                                                                                         |
|---------------------------|-----------------------------------------------------------------------------------------------------|
|                           |                    |
| thinThin (Two Thin Lines) | Two thin lines<br> |

| Referenced By                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| bottom@linestyle (§19.2.2.1); column@linestyle (§19.2.2.6); left@linestyle (§19.2.2.16); right@linestyle (§19.2.2.26); stroke@linestyle (§19.1.2.21); top@linestyle (§19.2.2.32) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_StrokeLineStyle) is located in §A.6.1. *end note*]

## 19.2 VML - Office Drawing

It is possible to include graphical VML objects in Office Open XML documents. The elements describing the core graphical objects are defined in the VML namespace. Additional elements that describe certain advanced shape effects, metadata and relationships are defined in this namespace.

[Note: The VML format is a legacy format originally introduced with Office 2000 and is included and fully defined in ISO/IEC 29500 for backwards compatibility reasons. The DrawingML format is a newer and richer format created with the goal of eventually replacing any uses of VML in the Office Open XML formats. VML should be considered a transitional format included in Office Open XML for legacy reasons only and new applications that need a file format for drawings are strongly encouraged to use preferentially DrawingML. *end note*]

[Example: Assume the following shape exists in a document:



The basic speech bubble shape is defined using VML. The 3-D effect is defined using the extrusion element in this namespace. The specularity attribute defines the subtle sharp reflection on the edge of the shape. The color attribute sets the extrusion to a different color than the face of the shape. The rotationangle attribute sets the shape's rotation about the X- and Y-axes. The lightposition and lightposition2 attributes set the positions of the light sources that illuminate the shape.

```
<o:extrusion v:ext="view" specularity="80000f" color="#c4bc96 [2414]" on="t"
```

```
rotationangle="-5,15" lightposition="0,-50000" lightposition2="0,50000"
type="perspective"/>
```

This element is a child of the primary shape definition:

```
<v:shape id="_x0000_s1030" type="#_x0000_t62"
  style="position:absolute;left:0;text-align:left;margin-left:35.25pt;
  margin-top:60pt;width:69pt;height:57pt;z-index:251658240" adj="1675,27171"
  fillcolor="#ddd8c2 [2894]">
  <o:extrusion ... />
</v:shape>
```

*end example]*

Throughout VML, numeric values that are allowed to take units can be specified in: cm (centimeters), mm (millimeters), in (inches), pt (points), pc (picas), px (pixels).

### 19.2.1 Table of Contents

This subclause is informative.

|               |                                                          |            |
|---------------|----------------------------------------------------------|------------|
| <b>19.2.2</b> | <b>Elements .....</b>                                    | <b>699</b> |
| 19.2.2.1      | bottom (Text Box Bottom Stroke) .....                    | 699        |
| 19.2.2.2      | callout (Callout) .....                                  | 712        |
| 19.2.2.3      | clippath (Shape Clipping Path).....                      | 714        |
| 19.2.2.4      | colormenu (UI Default Colors).....                       | 717        |
| 19.2.2.5      | colormru (Most Recently Used Colors) .....               | 718        |
| 19.2.2.6      | column (Text Box Interior Stroke) .....                  | 719        |
| 19.2.2.7      | complex (Complex) .....                                  | 732        |
| 19.2.2.8      | diagram (VML Diagram).....                               | 732        |
| 19.2.2.9      | entry (Regroup Entry) .....                              | 736        |
| 19.2.2.10     | equationxml (Storage for Alternate Math Content).....    | 737        |
| 19.2.2.11     | extrusion (3D Extrusion) .....                           | 738        |
| 19.2.2.12     | FieldCodes (WordprocessingML Field Switches) .....       | 753        |
| 19.2.2.13     | fill (Shape Fill Extended Properties) .....              | 754        |
| 19.2.2.14     | idmap (Shape ID Map) .....                               | 755        |
| 19.2.2.15     | ink (Ink) .....                                          | 756        |
| 19.2.2.16     | left (Text Box Left Stroke) .....                        | 757        |
| 19.2.2.17     | LinkType (Embedded Object Alternate Image Request) ..... | 769        |
| 19.2.2.18     | lock (Shape Protections) .....                           | 770        |
| 19.2.2.19     | LockedField (Embedded Object Cannot Be Refreshed).....   | 772        |
| 19.2.2.20     | OLEObject (Embedded OLE Object).....                     | 772        |
| 19.2.2.21     | proxy (Shape Reference) .....                            | 775        |
| 19.2.2.22     | r (Rule) .....                                           | 776        |
| 19.2.2.23     | regrouptable (Shape Grouping History) .....              | 778        |
| 19.2.2.24     | rel (Diagram Relationship).....                          | 779        |
| 19.2.2.25     | relationtable (Diagram Relationship Table).....          | 781        |
| 19.2.2.26     | right (Text Box Right Stroke).....                       | 782        |

|               |                                                                      |            |
|---------------|----------------------------------------------------------------------|------------|
| 19.2.2.27     | rules (Rule Set).....                                                | 794        |
| 19.2.2.28     | shapedefaults (New Shape Defaults) .....                             | 795        |
| 19.2.2.29     | shapelayout (Shape Layout Properties) .....                          | 806        |
| 19.2.2.30     | signatureline (Digital Signature Line) .....                         | 807        |
| 19.2.2.31     | skew (Skew Transform) .....                                          | 811        |
| 19.2.2.32     | top (Text Box Top Stroke) .....                                      | 813        |
| <b>19.2.3</b> | <b>Simple Types .....</b>                                            | <b>825</b> |
| 19.2.3.1      | ST_AlternateMathContentType (Alternate Math Content Type) .....      | 825        |
| 19.2.3.2      | ST_Angle (Callout Angles).....                                       | 825        |
| 19.2.3.3      | ST_BWMode (Black And White Modes) .....                              | 826        |
| 19.2.3.4      | ST_CalloutDrop (Callout Drop Location) .....                         | 827        |
| 19.2.3.5      | ST_CalloutPlacement (Callout Placement) .....                        | 827        |
| 19.2.3.6      | ST_ColorMode (Extrusion Color Types).....                            | 828        |
| 19.2.3.7      | ST_ConnectorType (Connector Type).....                               | 828        |
| 19.2.3.8      | ST_ConnectType (Connection Locations Type) .....                     | 829        |
| 19.2.3.9      | ST_ContentType (Content Type) .....                                  | 829        |
| 19.2.3.10     | ST_DiagramLayout (Diagram Layout Type) .....                         | 829        |
| 19.2.3.11     | ST_ExtrusionPlane (Extrusion Planes) .....                           | 830        |
| 19.2.3.12     | ST_ExtrusionRender (Extrusion Rendering Types) .....                 | 831        |
| 19.2.3.13     | ST_ExtrusionType (Extrusion Type) .....                              | 831        |
| 19.2.3.14     | ST_FillType (Shape Fill Type) .....                                  | 832        |
| 19.2.3.15     | ST_How (Alignment Type) .....                                        | 833        |
| 19.2.3.16     | ST_HrAlign (Alignment Type).....                                     | 834        |
| 19.2.3.17     | ST_InsetMode (Inset Margin Type) .....                               | 834        |
| 19.2.3.18     | ST_OLEDrawAspect ( Embedded Object Representations).....             | 834        |
| 19.2.3.19     | ST_OLELinkType (Embedded Object Alternate Image Request Types) ..... | 835        |
| 19.2.3.20     | ST_OLEType ( Embedded Connection Type) .....                         | 836        |
| 19.2.3.21     | ST_OLEUpdateMode ( Embedded Object Update Method Type).....          | 836        |
| 19.2.3.22     | ST_RType (Rule Type) .....                                           | 836        |
| 19.2.3.23     | ST_ScreenSize (Screen Sizes Type) .....                              | 837        |

End of informative text.

## 19.2.2 Elements

The following elements comprise the contents of the urn:schemas-microsoft-com:office:office namespace:

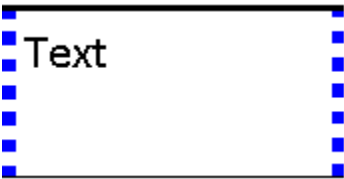
[Note: As the VML format is a format provided for backward compatibility, those VML elements defined in the same urn:schemas-microsoft-com:office:office namespace remain in that namespace as it is already used by millions of documents already using VML. *end note*]

### 19.2.2.1 bottom (Text Box Bottom Stroke)

This element specifies the stroke properties for the bottom border of a text box. It entirely supercedes its parent stroke element if its on attribute is true. Thus the default value of an unspecified attribute overrides a value specified in the parent. If the on attribute is false or not specified, the border is not shown.

[Example: The text box borders are set independently. Note that the bottom border does not inherit the weight from the parent stroke element.

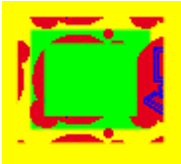
```
<v:stroke weight="2.25pt">
  <o:left v:ext="view" dashstyle="1 1" color="blue" weight="5pt" on="t"/>
  <o:top v:ext="view" color="black" weight="2.25pt" on="t"/>
  <o:right v:ext="view" dashstyle="1 1" color="blue" weight="5pt" on="t"/>
  <o:bottom v:ext="view" color="black" on="t"/>
  <o:column v:ext="view" color="#f60" on="t"/>
</v:stroke>
```



end example]

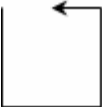
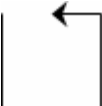
| Parent Elements                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| background (Part 1, §17.2.1); hdrShapeDefaults (§14.7.2.1); object (Part 1, §17.3.3.19); pict (§14.2.2.2); pict (§14.5.1); shapeDefaults (§14.7.2.2); stroke (§19.1.2.21) |

| Attributes                          | Description                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| althref (Alternate Image Reference) | <p>Specifies an alternate reference for an image in Macintosh PICT format.</p> <p>[Example:</p> <pre>&lt;v:stroke ... althref="myimage.pcz" ... &gt; &lt;/v:stroke&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                             |
| color (Stroke Color)                | <p>Specifies the stroke color. Overrides the strokecolor attribute of a shape. Default is black. See the fillcolor attribute for a list of supported named colors.</p> <p>[Example: The shape stroke is blue:</p> <pre>&lt;v:shape ... strokecolor="red" ... &gt;   &lt;v:stroke color="blue"/&gt; &lt;/v:shape&gt;</pre> <p>end example]</p> |

| Attributes                                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>color2 (Stroke Alternate Pattern Color)</p> | <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p> <p>Specifies a second color for strokes, used when filltype is pattern. Default is no value.</p> <p>When a pattern fill is used for the stroke, the stroke color is used in colored parts of the source image. The color2 defines an alternate color to use in place of black in the source image.</p> <p>[Example: This unusual example is intended to demonstrate how the image and colors interact to create a patterned stroke. The yellow background shows transparency. The non-square shape and square image create an effective offset. The heavy stroke weight shows more of the image. The green shape fill shows how the stroke is overlaid on the shape.</p> <pre> &lt;v:background fillcolor="yellow"/&gt; &lt;v:shape style="width:60;height:50"   strokecolor="red" fillcolor="lime"   path="m 0,0 l 0,1000 1000,1000 1000,0 x e"&gt;   &lt;v:stroke filltype="pattern" weight="10pt"     src="myimage.gif" color2="blue"/&gt; &lt;/v:shape&gt; </pre>  <p>, where myimage.gif is: </p> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p> |
| <p>dashstyle (Stroke Dash Pattern)</p>         | <p>Specifies the dot and dash pattern for a stroke. Default is solid. Pre-defined values are:</p> <ul style="list-style-type: none"> <li>• solid</li> <li>• shortdash</li> <li>• shortdot</li> <li>• shortdashdot</li> <li>• shortdashdotdot</li> <li>• dot</li> <li>• dash</li> <li>• longdash</li> <li>• dashdot</li> <li>• longdashdot</li> <li>• longdashdotdot</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| Attributes                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                      | <p>A custom-defined dash pattern can also be specified using a series of numbers. These define the length of the dash (the drawn part of the stroke) and the length of the space between the dashes. The lengths are relative to the line width: a length of 1 is equal to the line width. The endcap style is applied to each dash but the arrow style is not. The string defines the length of the dash then the length of the space. This can be repeated to form complex dash styles. The string should always contain a pair of numbers; if it contains an odd number of numbers the last is disregarded. 0 implies a dot that is fourfold symmetrical (with round end caps, this is a circle).</p> <p>[Example:</p> <pre>&lt;v:stroke dashstyle="0 2" weight="3pt"   endcap="round"&gt; &lt;/v:stroke&gt;</pre>  <pre>&lt;v:stroke dashstyle="longdashdotdot"   weight="2pt"&gt; &lt;/v:stroke&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <p>endarrow (Line End Arrowhead)</p> | <p>Specifies an arrowhead for the end of a line. Default is none. The path shall not be closed with the x command for the arrowhead to show. Allowed values are:</p> <ul style="list-style-type: none"> <li>• none</li> <li>• block</li> <li>• classic</li> <li>• diamond</li> <li>• oval</li> <li>• open</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke endarrow="classic"/&gt;</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |



| Attributes                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                               |  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_StrokeArrowType simple type (§19.1.3.8).</p>                                                                                                                                                                                                                                                                                              |
| endarrowlength<br>(Line End Arrowhead Length) | <p>Specifies the length of the arrowhead at the end of a line. Default is <i>medium</i>. Allowed values are:</p> <ul style="list-style-type: none"> <li>• short</li> <li>• medium</li> <li>• long</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke ... endarrowlength="long" ... /&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_StrokeArrowLength simple type (§19.1.3.7).</p> |
| endarrowwidth<br>(Line End Arrowhead Width)   | <p>Specifies the width of the arrowhead at the end of a line. Default is <i>medium</i>. Allowed values are:</p> <ul style="list-style-type: none"> <li>• narrow</li> <li>• medium</li> <li>• wide</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke ... endarrowwidth="wide" ... /&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_StrokeArrowWidth simple</p>                    |

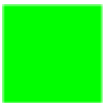
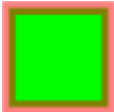
| Attributes                                                                                       | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>endcap (Line End Cap)</p>                                                                     | <p>type (§19.1.3.9).</p> <p>Specifies the cap style for the end of a stroke. Default is <code>flat</code>. Allowed values are:</p> <ul style="list-style-type: none"> <li>• <code>flat</code></li> <li>• <code>square</code></li> <li>• <code>round</code></li> </ul> <p>[Example:</p> <pre>&lt;v:stroke ... endcap="round" weight="10pt" ... /&gt;</pre>  <p>endcap="flat"</p> <p>endcap="square"</p> <p>endcap="round"</p> <p>end example]</p> <p>The possible values for this attribute are defined by the <code>ST_StrokeEndCap</code> simple type (§19.1.3.10).</p> |
| <p>ext (VML Extension Handling Behavior)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:vml</p> | <p>Specifies an optional value that indicates how applications that implement VML should interpret extensions not defined as part of the original specification of core VML.</p> <p>[<i>Rationale</i>: This part of the original VML specification is included to assist applications that leverage existing VML support in implementing the Office Open XML Format. <i>end rationale</i>]</p> <p>The possible values for this attribute are defined by the <code>ST_Ext</code> simple type (§19.1.3.2).</p>                                                                                                                                               |
| <p>filltype (Stroke Image Style)</p>                                                             | <p>Specifies the kind of fill used for the background of a stroke. Default is <code>solid</code>. Allowed values are:</p> <ul style="list-style-type: none"> <li>• <code>solid</code> - The fill pattern is solid.</li> <li>• <code>tile</code> - The fill image is tiled.</li> <li>• <code>pattern</code> - The fill image is stretched to form a pattern.</li> <li>• <code>frame</code> - The fill image becomes a border for the shape.</li> </ul> <p>[Example:</p>                                                                                                                                                                                     |

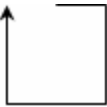
| Attributes                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                         | <pre> &lt;v:shape style="width:50;height:50"   strokecolor="red"   path="m 0,0 l 0,1000 1000,1000 1000,0 x e"&gt;   &lt;v:stroke filltype="frame" weight="10pt"     src="border.gif"/&gt; &lt;/v:shape&gt; </pre>   <p>, where border.gif is:</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_FillType simple type (§19.1.3.4).</p> |
| forcedash (Force Dashed Outline)        | <p>Specifies whether a dashed outline is used to draw a shape when a shape has no line or fill. Default is false.</p> <p>Used by PresentationML placeholders to draw a dashed outline when there is no line and no fill for a shape.</p> <p>[Example:</p> <pre> &lt;v:shape ... o:forcedash="true" ... &gt; &lt;/v:shape&gt; </pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                |
| href (Original Image Reference)         | <p>Specifies the URL to the original image file. Used only if the picture has been linked and embedded. Default is no value.</p> <p>[Example:</p> <pre> &lt;v:fill ... o:href="myimage.gif" ... &gt; &lt;/v:fill&gt; </pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                              |
| imagealignshape (Stoke Image Alignment) | <p>Specifies the alignment of the stroke image. If true, the image is aligned with the shape. Otherwise, it is aligned with the containing scope. Default is true.</p>                                                                                                                                                                                                                                                                                                                                                                               |

| Attributes                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |             |        |                       |         |                                        |        |                                    |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|--------|-----------------------|---------|----------------------------------------|--------|------------------------------------|
|                                            | <p>[Example: The top position offset shifts the image alignment relative to the containing window:</p> <pre>&lt;v:shape fillcolor="silver"   style="top:20;width:50;height:50"   path="m 0,0 l 0,1000 1000,1000 1000,0 x e"&gt;   &lt;v:stroke imagealignshape="false" weight="20pt"     filltype="tile" src="myimage.gif"/&gt; &lt;/v:shape&gt;</pre>  <p>imagealignshape="false"</p>  <p>imagealignshape="false"</p> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |       |             |        |                       |         |                                        |        |                                    |
| imageaspect<br>(Stroke Image Aspect Ratio) | <p>Specifies how the stroke image aspect ratio is preserved. Default is ignore. Allowed values are:</p> <table><tr><th>Value</th><th>Description</th></tr><tr><td>ignore</td><td>Ignore aspect issues.</td></tr><tr><td>atleast</td><td>Image is at least as big as imagesize.</td></tr><tr><td>atmost</td><td>Image is no bigger than imagesize.</td></tr></table> <p>[Example:</p> <pre>&lt;v:stroke filltype="frame" weight="10pt"   src="border.gif" imagealignshape="true"   imageaspect="atleast"&gt; &lt;/v:stroke&gt;</pre>  <p>imagealignshape="ignore"</p>                                                             | Value | Description | ignore | Ignore aspect issues. | atleast | Image is at least as big as imagesize. | atmost | Image is no bigger than imagesize. |
| Value                                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |             |        |                       |         |                                        |        |                                    |
| ignore                                     | Ignore aspect issues.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |             |        |                       |         |                                        |        |                                    |
| atleast                                    | Image is at least as big as imagesize.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |             |        |                       |         |                                        |        |                                    |
| atmost                                     | Image is no bigger than imagesize.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |             |        |                       |         |                                        |        |                                    |

| Attributes                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                   |  <p>imagealignshape="atleast"</p> <p>imagealignshape="atmost"</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ImageAspect simple type (§19.1.3.5).</p>                                                                                                                                               |
| imagesize (Stroke Image Size)     | <p>Specifies the size of the image for the stroke. Default is the size of the image.</p> <p>[Example:</p> <pre>&lt;v:stroke ... imagesize="10pt,10pt" .../&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                     |
| insetpen (Inset Border From Path) | <p>Specifies that the border shall be displayed inside of the path defining the shape, rather than along the path (the default border placement), or outside of the path as might be done with an image.</p> <p>[Example:</p> <pre>&lt;v:shape ... insetpen="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| joinstyle (Line End Join Style)   | <p>Specifies the join style for line ends. Default is round.</p> <ul style="list-style-type: none"> <li>• round</li> <li>• bevel</li> <li>• miter</li> </ul> <p>[Example:</p> <pre>&lt;v:polyline strokeweight="10pt" strokecolor="navy" points="10pt,10pt,50pt,50pt,90pt,10pt"&gt;</pre>                                                                                                                                            |

| Attributes                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                | <pre>&lt;v:stroke joinstyle="bevel"/&gt; &lt;/v:polyline&gt;</pre>  <p>joinstyle="round"</p> <p>joinstyle="bevel"</p> <p>joinstyle="miter"</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_StrokeJoinStyle simple type (§19.1.3.11).</p>                                                                                                                                                                              |
| linestyle (Stroke Line Style)  | <p>Specifies the line style of the stroke. Default is single.</p> <ul style="list-style-type: none"> <li>• single</li> <li>• thinThin</li> <li>• thinThick</li> <li>• thickThin</li> <li>• thickBetweenThin</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke linestyle="thickThin" weight="5pt"&gt; &lt;/v:stroke&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_StrokeLineStyle simple type (§19.1.3.12).</p> |
| miterlimit (Miter Joint Limit) | <p>Specifies the smoothness of the miter joint, or the maximum distance between the inner point and outer point of a joint. This number is a multiple of the thickness of the line. Default is 8.</p> <p>[Example:</p>                                                                                                                                                                                                                                                                                                                                |

| Attributes               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          | <pre>&lt;v:stroke joinstyle="miter" weight="10pt"   miterlimit="2"&gt; &lt;/v:stroke&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema decimal datatype.</p>                                                                                                                                                                                                                         |
| on (Stroke Toggle)       | <p>Specifies whether the stroke is displayed. Default is true. This attribute overrides the shape's stroke attribute.</p> <p>[Example:</p> <pre>&lt;v:rect style="width:50;height:50" stroked="true"   fillcolor="lime" strokecolor="red"&gt;   &lt;v:stroke on="false" weight="5pt"/&gt; &lt;/v:rect&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| opacity (Stroke Opacity) | <p>Specifies the amount of transparency of a stroke. Default is 1.0.</p> <p>[Example:</p> <pre>&lt;v:rect style="width:50;height:50"   fillcolor="lime" strokecolor="red"&gt;   &lt;v:stroke weight="5pt" opacity="50%"/&gt; &lt;/v:rect&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string</p>                                                                              |

| Attributes                                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| src (Stroke Image Location)                    | <p>datatype.</p> <p>Specifies the source image to load for a stroke fill. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:stroke ... src="myimage.gif" ... &gt; &lt;/v:stroke&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                              |
| startarrow (Line Start Arrowhead)              | <p>Specifies an arrowhead for the start of a line. Default is none. The path shall not be closed with the x command for the arrowhead to show. Allowed values are:</p> <ul style="list-style-type: none"> <li>• none</li> <li>• block</li> <li>• classic</li> <li>• diamond</li> <li>• oval</li> <li>• open</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke startarrow="classic"/&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_StrokeArrowType simple type (§19.1.3.8).</p> |
| startarrowlength (Line Start Arrowhead Length) | <p>Specifies the length of the arrowhead at the start of a line. Default is medium. Allowed values are:</p> <ul style="list-style-type: none"> <li>• short</li> <li>• medium</li> <li>• long</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke ... startarrowlength="long" ... /&gt;</pre>                                                                                                                                                                                                                                                                                                                         |



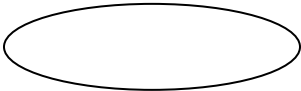
| Attributes                                                | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                           |  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_StrokeArrowLength simple type (§19.1.3.7).</p>                                                                                                                                                                                                                                                                                              |
| <b>startarrowwidth</b><br>(Line Start<br>Arrowhead Width) | <p>Specifies the width of the arrowhead at the start of a line. Default is <i>medium</i>. Allowed values are:</p> <ul style="list-style-type: none"> <li>• narrow</li> <li>• medium</li> <li>• wide</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke ... startarrowwidth="wide" ... /&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_StrokeArrowWidth simple type (§19.1.3.9).</p> |
| <b>title</b> (Stroke Title)                               | <p>Specifies the title of an embedded stroke image. This is typically set to the comment property of the image, which is often blank.</p> <p>[Example:</p> <pre>&lt;v:fill ... o:title="alt text" ... &gt; &lt;/v:fill&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                             |
| <b>weight</b> (Stroke<br>Weight)                          | <p>Specifies the thickness of a stroke. Default is 1. This attribute overrides the shape's <i>strokeweight</i> attribute.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                           |

[Note: The W3C XML Schema definition of this element’s content model (CT\_StrokeChild) is located in §A.6.2.  
end note]

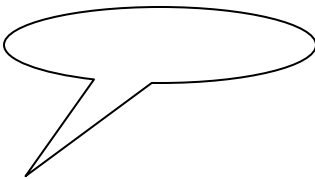
### 19.2.2.2 callout (Callout)

This element specifies the automatic behavior and layout parameters of callout shapes. Callout shapes are standard VML shapes that behave as callouts, providing an additional callout object which can be used to point at another location:

[Example: Consider the following VML shape:



If this shape is made a callout shape by adding the callout element to its shape definition, then the shape has a callout object, for example:



end example]

| Parent Elements                                                                                                                                                                                                                                                                                                                                                                                                 |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| arc (§19.1.2.1); background (Part 1, §17.2.1); curve (§19.1.2.3); group (§19.1.2.7); hdrShapeDefaults (§14.7.2.1); image (§19.1.2.10); line (§19.1.2.12); object (Part 1, §17.3.3.19); oval (§19.1.2.13); pict (§14.2.2.2); pict (§14.5.1); polyline (§19.1.2.15); rect (§19.1.2.16); roundrect (§19.1.2.17); shape (§19.1.2.19); shapeDefaults (§14.7.2.2); shapedefaults (§19.2.2.28); shapetype (§19.1.2.20) |  |

| Attributes                            | Description                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| accentbar (Callout accent bar toggle) | Specifies whether an accent bar is used with the callout. Default is false.<br><br>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).                                                                                                                                                                               |
| angle (Callout angle)                 | Specifies the angle that the callout makes with respect to the bounding box of the shape. Default is no value.<br><br>The possible values for this attribute are defined by the ST_Angle simple type (§19.2.3.2).                                                                                                                                                |
| distance (Callout drop distance)      | Specifies the drop distance of a callout. The drop distance of a callout is measured from the edge of the shape where the pointer line starts and continues the absolute length of the distance value. If specified with no units, EMUs are assumed. Default is no value.<br><br>The possible values for this attribute are defined by the W3C XML Schema string |

| Attributes                                                                               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                          | datatype.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| drop (Callout drop position)                                                             | <p>Specifies where the drop of a callout is placed.</p> <p>The possible values for this attribute are defined by the ST_CalloutDrop simple type (§19.2.3.4).</p>                                                                                                                                                                                                                                                                                                                                |
| dropauto (Callout automatic drop toggle)                                                 | <p>Specifies whether the callout has an automatic drop.</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                              |
| ext (VML Extension Handling Behavior)<br><br>Namespace:<br>urn:schemas-microsoft-com:vml | <p>Specifies an optional value that indicates how applications that implement VML should interpret extensions not defined as part of the original specification of core VML.</p> <p>[<i>Rationale</i>: This part of the original VML specification is included to assist applications that leverage existing VML support in implementing the Office Open XML Format. <i>end rationale</i>]</p> <p>The possible values for this attribute are defined by the ST_Ext simple type (§19.1.3.2).</p> |
| gap (Callout gap)                                                                        | <p>Specifies the distance of the callout line from the bounding rectangle of the callout. Default value is one-twelfth of an inch, in EMUs (76200).</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                        |
| length (Callout length)                                                                  | <p>Specifies the length of the first part of a multi-segmented callout line. If specified with no units, EMUs are assumed. Default is 0.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                   |
| lengthspecified (Callout length toggle)                                                  | <p>Specifies whether the length attribute is used for the callout. Default is false. If true, the length attribute is used. If false, a best fit is used.</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                            |
| minusx (Callout flip x)                                                                  | <p>Specifies whether the callout flips to the other side of the drop tip along the x-axis when moved or resized. Default is false.</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                   |
| minusy (Callout flip y)                                                                  | <p>Specifies whether the callout flips to the other side of the drop tip along the y-axis when moved or resized. Default is false.</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                   |
| on (Callout toggle)                                                                      | Specifies whether a shape is a callout. Default is false.                                                                                                                                                                                                                                                                                                                                                                                                                                       |

| Attributes                              | Description                                                                                                                                                                                                                                                                              |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                         | The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).                                                                                                                                                                                          |
| textborder (Callout text border toggle) | Specifies whether a callout has a text border. Default is true.<br><br>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).                                                                                                                   |
| type (Callout type)                     | Specifies the type of callout. Default is rectangle. Allowed values are: <ul style="list-style-type: none"> <li>rectangle</li> <li>roundedrectangle</li> <li>oval</li> <li>cloud</li> </ul><br>The possible values for this attribute are defined by the W3C XML Schema string datatype. |

[Note: The W3C XML Schema definition of this element's content model (CT\_Callout) is located in §A.6.2. *end note*]

### 19.2.2.3 clippath (Shape Clipping Path)

This element specifies the path of the clipping polygon for the shape.

[Example:

```
<v:rect ... wrapcoords="-207 -433 -207 21925 21807 21925 21807 -433 -207 -433"
o:clip="t" o:cliptowrap="t">
  <o:clippath o:v="m-207,-433r,22358121807,21925r,-223581-207,-433xe"/>
</v:rect>
```

*end example*]

| Parent Elements                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arc (§19.1.2.1); background (Part 1, §17.2.1); curve (§19.1.2.3); group (§19.1.2.7); hdrShapeDefaults (§14.7.2.1); image (§19.1.2.10); line (§19.1.2.12); object (Part 1, §17.3.3.19); oval (§19.1.2.13); pict (§14.2.2.2); pict (§14.5.1); polyline (§19.1.2.15); rect (§19.1.2.16); roundrect (§19.1.2.17); shape (§19.1.2.19); shapeDefaults (§14.7.2.2); shapetype (§19.1.2.20) |

| Attributes          | Description                                                                                                                                                        |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| v (Path Definition) | Specifies a string containing the commands that define the shape's path. This value consists of commands followed by zero or more parameters. Default is no value. |

| Attributes | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |                                                                                                                                                                                      |            |             |   |        |   |                                                     |   |        |    |                                                                                                                                                                 |   |         |    |                                                                                                                                                                  |   |       |   |                                                                                                            |   |     |   |                                                                                                                                                                                      |   |         |    |                                                                                        |   |         |    |                                                                             |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|---|--------|---|-----------------------------------------------------|---|--------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------|---|------------------------------------------------------------------------------------------------------------|---|-----|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------|----|----------------------------------------------------------------------------------------|---|---------|----|-----------------------------------------------------------------------------|
|            | <p>The following rules apply to path strings:</p> <ul style="list-style-type: none"><li>• Commas or spaces delimit parameters for each command. Both "m 0,0" and "m0 0" are acceptable.</li><li>• A parameter that is omitted using commas is treated as having a value of zero. Thus, "c 10,10,0,0,25,13" and "c 10,10,,,25,13" are equivalent.</li><li>• Parameterized paths are also allowed. In this case, the shape shall also have a formulas element (§19.1.2.6) with a list of formulas that are substituted into the path using the @ symbol followed by the number of the formula. The adj property of the shape contains the input parameters for these formulas. For example, "moveto @1@4". The evaluations of the formulas are substituted into the appropriate positions. @ also serves as a delimiter.</li></ul> <p>The allowed commands are given below. An asterisk (*) indicates that the command is allowed to be repeated. For the qb command, the controlpoint parameter is also allowed to be repeated.</p> <table><tr><th>Command</th><th>Name</th><th>Parameters</th><th>Description</th></tr><tr><td>m</td><td>moveto</td><td>2</td><td>Start a new sub-path at the given (x,y) coordinate.</td></tr><tr><td>l</td><td>lineto</td><td>2*</td><td>Draw a line from the current point to the given (x,y) coordinate which becomes the new current point. Specifying a number of coordinate pairs forms a polyline.</td></tr><tr><td>c</td><td>curveto</td><td>6*</td><td>Draw a cubic bézier curve from the current point to the coordinate given by the final two parameters. The control points are given by the first four parameters.</td></tr><tr><td>x</td><td>close</td><td>0</td><td>Close the current sub-path by drawing a straight line from the current point to the original moveto point.</td></tr><tr><td>e</td><td>end</td><td>0</td><td>End the current set of sub-paths. A given set of sub-paths (as delimited by end) is filled. Subsequent sets of sub-paths are filled independently and superimposed on existing ones.</td></tr><tr><td>t</td><td>rmoveto</td><td>2*</td><td>Start a new sub-path at a coordinate relative to the current point, cp (cpx+x, cpy+y).</td></tr><tr><td>r</td><td>rlineto</td><td>2*</td><td>Draw a line from the current point to the given relative coordinate (cpx+x,</td></tr></table> | Command    | Name                                                                                                                                                                                 | Parameters | Description | m | moveto | 2 | Start a new sub-path at the given (x,y) coordinate. | l | lineto | 2* | Draw a line from the current point to the given (x,y) coordinate which becomes the new current point. Specifying a number of coordinate pairs forms a polyline. | c | curveto | 6* | Draw a cubic bézier curve from the current point to the coordinate given by the final two parameters. The control points are given by the first four parameters. | x | close | 0 | Close the current sub-path by drawing a straight line from the current point to the original moveto point. | e | end | 0 | End the current set of sub-paths. A given set of sub-paths (as delimited by end) is filled. Subsequent sets of sub-paths are filled independently and superimposed on existing ones. | t | rmoveto | 2* | Start a new sub-path at a coordinate relative to the current point, cp (cpx+x, cpy+y). | r | rlineto | 2* | Draw a line from the current point to the given relative coordinate (cpx+x, |
| Command    | Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Parameters | Description                                                                                                                                                                          |            |             |   |        |   |                                                     |   |        |    |                                                                                                                                                                 |   |         |    |                                                                                                                                                                  |   |       |   |                                                                                                            |   |     |   |                                                                                                                                                                                      |   |         |    |                                                                                        |   |         |    |                                                                             |
| m          | moveto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2          | Start a new sub-path at the given (x,y) coordinate.                                                                                                                                  |            |             |   |        |   |                                                     |   |        |    |                                                                                                                                                                 |   |         |    |                                                                                                                                                                  |   |       |   |                                                                                                            |   |     |   |                                                                                                                                                                                      |   |         |    |                                                                                        |   |         |    |                                                                             |
| l          | lineto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2*         | Draw a line from the current point to the given (x,y) coordinate which becomes the new current point. Specifying a number of coordinate pairs forms a polyline.                      |            |             |   |        |   |                                                     |   |        |    |                                                                                                                                                                 |   |         |    |                                                                                                                                                                  |   |       |   |                                                                                                            |   |     |   |                                                                                                                                                                                      |   |         |    |                                                                                        |   |         |    |                                                                             |
| c          | curveto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6*         | Draw a cubic bézier curve from the current point to the coordinate given by the final two parameters. The control points are given by the first four parameters.                     |            |             |   |        |   |                                                     |   |        |    |                                                                                                                                                                 |   |         |    |                                                                                                                                                                  |   |       |   |                                                                                                            |   |     |   |                                                                                                                                                                                      |   |         |    |                                                                                        |   |         |    |                                                                             |
| x          | close                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0          | Close the current sub-path by drawing a straight line from the current point to the original moveto point.                                                                           |            |             |   |        |   |                                                     |   |        |    |                                                                                                                                                                 |   |         |    |                                                                                                                                                                  |   |       |   |                                                                                                            |   |     |   |                                                                                                                                                                                      |   |         |    |                                                                                        |   |         |    |                                                                             |
| e          | end                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0          | End the current set of sub-paths. A given set of sub-paths (as delimited by end) is filled. Subsequent sets of sub-paths are filled independently and superimposed on existing ones. |            |             |   |        |   |                                                     |   |        |    |                                                                                                                                                                 |   |         |    |                                                                                                                                                                  |   |       |   |                                                                                                            |   |     |   |                                                                                                                                                                                      |   |         |    |                                                                                        |   |         |    |                                                                             |
| t          | rmoveto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2*         | Start a new sub-path at a coordinate relative to the current point, cp (cpx+x, cpy+y).                                                                                               |            |             |   |        |   |                                                     |   |        |    |                                                                                                                                                                 |   |         |    |                                                                                                                                                                  |   |       |   |                                                                                                            |   |     |   |                                                                                                                                                                                      |   |         |    |                                                                                        |   |         |    |                                                                             |
| r          | rlineto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2*         | Draw a line from the current point to the given relative coordinate (cpx+x,                                                                                                          |            |             |   |        |   |                                                     |   |        |    |                                                                                                                                                                 |   |         |    |                                                                                                                                                                  |   |       |   |                                                                                                            |   |     |   |                                                                                                                                                                                      |   |         |    |                                                                                        |   |         |    |                                                                             |

| Attributes | Description |                |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------|-------------|----------------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |             |                |    | cpy+y).                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|            | v           | rcurveto       | 6* | Cubic bézier curve using the given coordinate relative to the current point.                                                                                                                                                                                                                                                                                                                                                                                |
|            | nf          | nofill         | 0  | The current set of sub-paths (delimited by e) is not filled.                                                                                                                                                                                                                                                                                                                                                                                                |
|            | ns          | nostroke       | 0  | The current set of sub-paths (delimited by e) is not stroked.                                                                                                                                                                                                                                                                                                                                                                                               |
|            | ae          | angleellipseto | 6* | Draws a segment of an ellipse as described using these parameters. A straight line is drawn from the current point to the start point of the segment. The parameters are: center (x,y), size(w,h), start angle, end angle.                                                                                                                                                                                                                                  |
|            | al          | angleellipse   | 6* | Same as angleellipseto except that there is an implied moveto the starting point of the segment.                                                                                                                                                                                                                                                                                                                                                            |
|            | at          | arcto          | 8* | A segment of the ellipse is drawn which starts at the angle defined by the start radius vector and ends at the angle defined by the end vector. A straight line is drawn from the current point to the start of the arc. The arc is always drawn in a counterclockwise direction. The parameters are: left, top, right, bottom, start(x,y), end(x,y). The first four values define the bounding box of an ellipse. The last four define two radial vectors. |
|            | ar          | arc            | 8* | Same as arcto except there is an implied moveto the start point of the arc.                                                                                                                                                                                                                                                                                                                                                                                 |
|            | wa          | clockwisearco  | 8* | Same as arcto but the arc is drawn in a clockwise direction.                                                                                                                                                                                                                                                                                                                                                                                                |
|            | wr          | clockwisearc   | 8* | Same as arc but the arc is drawn in a clockwise direction                                                                                                                                                                                                                                                                                                                                                                                                   |

| Attributes                                                                                | Description |                     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------|-------------|---------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                           | qx          | ellipticalquadrantx | 2*   | A quarter ellipse is drawn from the current point to the given end point. The elliptical segment is initially tangential to a line parallel to the x-axis. (i.e. the segment starts out horizontal). The parameters are: end(x,y).                                                                                                                                                                                                                   |
|                                                                                           | qy          | ellipticalquadranty | 2*   | Same as ellipticalquadrantx except that the elliptical segment is initially tangential to a line parallel to the y-axis (i.e. the segment starts out vertical).                                                                                                                                                                                                                                                                                      |
|                                                                                           | qb          | quadraticbezier     | 2+2* | Defines one or more quadratic bézier curves by means of control points and an end point. Intermediate (on-curve) points are obtained by interpolation between successive control points as in the OpenType font specification. The sub-path need not be started in which case the sub-path is closed. In this case the last point of the sub-path defines the start point of the quadratic bézier. The parameters are: controlpoint(x,y)*, end(x,y). |
| The possible values for this attribute are defined by the W3C XML Schema string datatype. |             |                     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

[Note: The W3C XML Schema definition of this element's content model ([CT\\_ClipPath](#)) is located in §A.6.2. *end note*]

#### 19.2.2.4 [colormenu](#) (UI Default Colors)

This element determines the default colors for different types of colors that can be applied to VML shapes.

[*Rationale:* An application can choose to retain default colors or the last color choices a user made and present those in parts of its user interface. *end rationale*]

[Example:

```
<o:shapedefaults ... >
  <o:colormenu v:ext="edit" fillcolor="none" extrusioncolor="#36f"/>
</o:shapedefaults>
```

*end example]*

| Parent Elements            |
|----------------------------|
| shapedefaults (§19.2.2.28) |

| Attributes                                                                               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ext (VML Extension Handling Behavior)<br><br>Namespace:<br>urn:schemas-microsoft-com:VML | Specifies an optional value that indicates how applications that implement VML should interpret extensions not defined as part of the original specification of core VML.<br><br><i>[Rationale: This part of the original VML specification is included to assist applications that leverage existing VML support in implementing the Office Open XML Format. end rationale]</i><br><br>The possible values for this attribute are defined by the ST_Ext simple type (§19.1.3.2). |
| extrusioncolor (Default extrusion color)                                                 | The default color associated with the 3D extrusion of a VML shape. Default is "#000000".<br><br>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).                                                                                                                                                                                                                                                                                   |
| fillcolor (Default fill color)                                                           | The default color associated with the fill of a VML shape. Default is "#0000FF".<br><br>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).                                                                                                                                                                                                                                                                                           |
| shadowcolor (Default shadow color)                                                       | The default color associated with the shadow of a VML shape. Default is "#80800C".<br><br>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).                                                                                                                                                                                                                                                                                         |
| strokecolor (Default stroke color)                                                       | The default color associated with the stroke of a VML shape. Default is "#FFFF00".<br><br>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).                                                                                                                                                                                                                                                                                         |

*[Note: The W3C XML Schema definition of this element's content model (CT\_ColorMenu) is located in §A.6.2. end note]*

#### 19.2.2.5 colormru (Most Recently Used Colors)

This element defines a list of up to eight colors which represent the colors most recently used by the user.

*[Rationale: An application can choose to retain the last color choices a user made, regardless of where on VML shapes they are used, and present those in parts of its user interface. end rationale]*

*[Example:*

```
<o:shapedefaults ... >
```



```
<o:colormru v:ext="edit" colors="#a01aae,#456b69,#06f,#a1ae24,#d57811"/>
</o:shapedefaults>
```

*end example]*

| Parent Elements            |
|----------------------------|
| shapedefaults (§19.2.2.28) |

| Attributes                                                                               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| colors (Recent colors)                                                                   | <p>A comma-separated list of up to eight most recently used colors. Default is no value. Colors should be defined using hexadecimal notation - see the ST_ColorType simple type (§20.1.2.3) for a full description.</p> <p>[Example:</p> <pre>&lt;o:colormru v:ext="edit"   colors="#a01aae,#456b69,#06f,#a1ae24,#d57811"/&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                |
| ext (VML Extension Handling Behavior)<br><br>Namespace:<br>urn:schemas-microsoft-com:vml | <p>Specifies an optional value that indicates how applications that implement VML should interpret extensions not defined as part of the original specification of core VML.</p> <p>[<i>Rationale:</i> This part of the original VML specification is included to assist applications that leverage existing VML support in implementing the Office Open XML Format. <i>end rationale]</i></p> <p>The possible values for this attribute are defined by the ST_Ext simple type (§19.1.3.2).</p> |

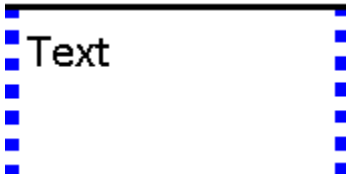
[Note: The W3C XML Schema definition of this element's content model (CT\_ColorMru) is located in §A.6.2. *end note]*

#### 19.2.2.6 column (Text Box Interior Stroke)

This element specifies the stroke properties for the interior border of a text box. It entirely supercedes its parent stroke element if its on attribute is true. Thus the default value of an unspecified attribute overrides a value specified in the parent. If the on attribute is false or not specified, the border is not shown. [Note: This element is ignored if an implementation does not support multi-column text boxes. *end note]*

[Example: The text box borders are set independently. Note that the bottom border does not inherit the weight from the parent stroke element.

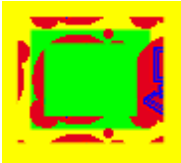
```
<v:stroke weight="2.25pt">
  <o:left v:ext="view" dashstyle="1 1" color="blue" weight="5pt" on="t"/>
  <o:top v:ext="view" color="black" weight="2.25pt" on="t"/>
  <o:right v:ext="view" dashstyle="1 1" color="blue" weight="5pt" on="t"/>
  <o:bottom v:ext="view" color="black" on="t"/>
  <o:column v:ext="view" color="#f60" on="t"/>
</v:stroke>
```

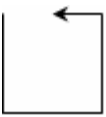


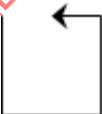
*end example]*

| Parent Elements                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| background (Part 1, §17.2.1); hdrShapeDefaults (§14.7.2.1); object (Part 1, §17.3.3.19); pict (§14.2.2.2); pict (§14.5.1); shapeDefaults (§14.7.2.2); stroke (§19.1.2.21) |

| Attributes                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| alhref (Alternate Image Reference) | <p>Specifies an alternate reference for an image in Macintosh PICT format.</p> <p>[Example:</p> <pre>&lt;v:stroke ... alhref="myimage.pcz" ... &gt; &lt;/v:stroke&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                     |
| color (Stroke Color)               | <p>Specifies the stroke color. Overrides the strokecolor attribute of a shape. Default is black. See the fillcolor attribute for a list of supported named colors.</p> <p>[Example: The shape stroke is blue:</p> <pre>&lt;v:shape ... strokecolor="red" ... &gt;   &lt;v:stroke color="blue"/&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p> |

| Attributes                                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>color2 (Stroke Alternate Pattern Color)</b> | <p>Specifies a second color for strokes, used when filltype is pattern. Default is no value.</p> <p>When a pattern fill is used for the stroke, the stroke color is used in colored parts of the source image. The color2 defines an alternate color to use in place of black in the source image.</p> <p>[<i>Example:</i> This unusual example is intended to demonstrate how the image and colors interact to create a patterned stroke. The yellow background shows transparency. The non-square shape and square image create an effective offset. The heavy stroke weight shows more of the image. The green shape fill shows how the stroke is overlaid on the shape.</p> <pre>&lt;v:background fillcolor="yellow"/&gt; &lt;v:shape style="width:60;height:50"   strokecolor="red" fillcolor="lime"   path="m 0,0 l 0,1000 1000,1000 1000,0 x e"&gt;   &lt;v:stroke filltype="pattern" weight="10pt"     src="myimage.gif" color2="blue"/&gt; &lt;/v:shape&gt;</pre>  <p>, where myimage.gif is: </p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p> |
| <b>dashstyle (Stroke Dash Pattern)</b>         | <p>Specifies the dot and dash pattern for a stroke. Default is solid. Pre-defined values are:</p> <ul style="list-style-type: none"> <li>• solid</li> <li>• shortdash</li> <li>• shortdot</li> <li>• shortdashdot</li> <li>• shortdashdotdot</li> <li>• dot</li> <li>• dash</li> <li>• longdash</li> <li>• dashdot</li> <li>• longdashdot</li> <li>• longdashdotdot</li> </ul> <p>A custom-defined dash pattern can also be specified using a series of numbers. These define the length of the dash (the drawn part of the stroke) and the length of the space between the dashes. The lengths are relative to the line width: a length of 1 is equal to</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| Attributes                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                               | <p>the line width. The endcap style is applied to each dash but the arrow style is not. The string defines the length of the dash then the length of the space. This can be repeated to form complex dash styles. The string should always contain a pair of numbers; if it contains an odd number of numbers the last is disregarded. 0 implies a dot that is fourfold symmetrical (with round end caps, this is a circle).</p> <p>[Example:</p> <pre>&lt;v:stroke dashstyle="0 2" weight="3pt"   endcap="round"&gt; &lt;/v:stroke&gt;</pre>  <pre>&lt;v:stroke dashstyle="longdashdotdot"   weight="2pt"&gt; &lt;/v:stroke&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| endarrow (Line End Arrowhead) | <p>Specifies an arrowhead for the end of a line. Default is none. The path shall not be closed with the x command for the arrowhead to show. Allowed values are:</p> <ul style="list-style-type: none"> <li>• none</li> <li>• block</li> <li>• classic</li> <li>• diamond</li> <li>• oval</li> <li>• open</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke endarrow="classic"/&gt;</pre>  <p>]</p>                                                                                                                                                                                                                                                                                                                                                                                                                                              |

| Attributes                                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                       | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_StrokeArrowType simple type (§19.1.3.8).</p>                                                                                                                                                                                                                                                                                                                                                                        |
| <p>endarrowlength<br/>(Line End Arrowhead Length)</p> | <p>Specifies the length of the arrowhead at the end of a line. Default is medium. Allowed values are:</p> <ul style="list-style-type: none"> <li>• short</li> <li>• medium</li> <li>• long</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke ... endarrowlength="long" ... /&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_StrokeArrowLength simple type (§19.1.3.7).</p> |
| <p>endarrowwidth<br/>(Line End Arrowhead Width)</p>   | <p>Specifies the width of the arrowhead at the end of a line. Default is medium. Allowed values are:</p> <ul style="list-style-type: none"> <li>• narrow</li> <li>• medium</li> <li>• wide</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke ... endarrowwidth="wide" ... /&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_StrokeArrowWidth simple type (§19.1.3.9).</p> |
| <p>endcap (Line End Cap)</p>                          | <p>Specifies the cap style for the end of a stroke. Default is flat. Allowed values are:</p> <ul style="list-style-type: none"> <li>• flat</li> </ul>                                                                                                                                                                                                                                                                                                                                                          |

| Attributes                                                                                       | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                  | <ul style="list-style-type: none"> <li>• square</li> <li>• round</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke ... endcap="round" weight="10pt" ... /&gt;</pre>  <p>endcap="flat"</p> <p>endcap="square"</p> <p>endcap="round"</p> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_StrokeEndCap simple type (§19.1.3.10).</p>                                                                                                                   |
| <p>ext (VML Extension Handling Behavior)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:vml</p> | <p>Specifies an optional value that indicates how applications that implement VML should interpret extensions not defined as part of the original specification of core VML.</p> <p>[Rationale: This part of the original VML specification is included to assist applications that leverage existing VML support in implementing the Office Open XML Format. <i>end rationale</i>]</p> <p>The possible values for this attribute are defined by the ST_Ext simple type (§19.1.3.2).</p>                                                                             |
| <p>filltype (Stroke Image Style)</p>                                                             | <p>Specifies the kind of fill used for the background of a stroke. Default is solid. Allowed values are:</p> <ul style="list-style-type: none"> <li>• solid - The fill pattern is solid.</li> <li>• tile - The fill image is tiled.</li> <li>• pattern - The fill image is stretched to form a pattern.</li> <li>• frame - The fill image becomes a border for the shape.</li> </ul> <p>[Example:</p> <pre>&lt;v:shape style="width:50;height:50" strokecolor="red" path="m 0,0 l 0,1000 1000,1000 1000,0 x e"&gt; &lt;v:stroke filltype="frame" weight="10pt"</pre> |

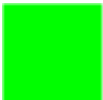
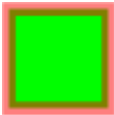
| Attributes                                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                | <pre>src="border.gif"/&gt; &lt;/v:shape&gt;</pre>   <p>, where border.gif is:</p> <p><i>end example</i></p> <p>The possible values for this attribute are defined by the ST_FillType simple type (§19.1.3.4).</p>                                                                                             |
| <b>forcedash</b> (Force Dashed Outline)        | <p>Specifies whether a dashed outline is used to draw a shape when a shape has no line or fill. Default is <code>false</code>.</p> <p>Used by PresentationML placeholders to draw a dashed outline when there is no line and no fill for a shape.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:forcedash="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| <b>href</b> (Original Image Reference)         | <p>Specifies the URL to the original image file. Used only if the picture has been linked and embedded. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:fill ... o:href="myimage.gif" ... &gt; &lt;/v:fill&gt;</pre> <p><i>end example</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                            |
| <b>imagealignshape</b> (Stoke Image Alignment) | <p>Specifies the alignment of the stroke image. If <code>true</code>, the image is aligned with the shape. Otherwise, it is aligned with the containing scope. Default is <code>true</code>.</p> <p>[Example: The top position offset shifts the image alignment relative to the containing window:</p> <pre>&lt;v:shape fillcolor="silver"</pre>                                                                                                                               |

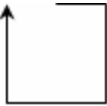
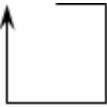
| Attributes                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |             |        |                       |         |                                        |        |                                    |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|--------|-----------------------|---------|----------------------------------------|--------|------------------------------------|
|                                            | <pre>style="top:20;width:50;height:50" path="m 0,0 l 0,1000 1000,1000 1000,0 x e"&gt; &lt;v:stroke imagealignshape="false" weight="20pt"   filltype="tile" src="myimage.gif"/&gt; &lt;/v:shape&gt;</pre>  <p>imagealignshape="false"</p> <p>imagealignshape="false"</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                               |       |             |        |                       |         |                                        |        |                                    |
| imageaspect<br>(Stroke Image Aspect Ratio) | <p>Specifies how the stroke image aspect ratio is preserved. Default is ignore. Allowed values are:</p> <table><tr><th>Value</th><th>Description</th></tr><tr><td>ignore</td><td>Ignore aspect issues.</td></tr><tr><td>atleast</td><td>Image is at least as big as imagesize.</td></tr><tr><td>atmost</td><td>Image is no bigger than imagesize.</td></tr></table> <p>[Example.</p> <pre>&lt;v:stroke filltype="frame" weight="10pt"   src="border.gif" imagealignshape="true"   imageaspect="atleast"&gt; &lt;/v:stroke&gt;</pre>  <p>imagealignshape="ignore"</p> <p>imagealignshape="atleast"</p> | Value | Description | ignore | Ignore aspect issues. | atleast | Image is at least as big as imagesize. | atmost | Image is no bigger than imagesize. |
| Value                                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |             |        |                       |         |                                        |        |                                    |
| ignore                                     | Ignore aspect issues.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |             |        |                       |         |                                        |        |                                    |
| atleast                                    | Image is at least as big as imagesize.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |             |        |                       |         |                                        |        |                                    |
| atmost                                     | Image is no bigger than imagesize.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |             |        |                       |         |                                        |        |                                    |



| Attributes                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                   |  <p><code>imagealignshape="atmost"</code></p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ImageAspect simple type (§19.1.3.5).</p>                                                                                                                                                                   |
| imagesize (Stroke Image Size)     | <p>Specifies the size of the image for the stroke. Default is the size of the image.</p> <p>[Example:</p> <pre>&lt;v:stroke ... imagesize="10pt,10pt" ... /&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                    |
| insetpen (Inset Border From Path) | <p>Specifies that the border shall be displayed inside of the path defining the shape, rather than along the path (the default border placement), or outside of the path as might be done with an image.</p> <p>[Example:</p> <pre>&lt;v:shape ... insetpen="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| joinstyle (Line End Join Style)   | <p>Specifies the join style for line ends. Default is round.</p> <ul style="list-style-type: none"> <li>• round</li> <li>• bevel</li> <li>• miter</li> </ul> <p>[Example:</p> <pre>&lt;v:polyline strokeweight="10pt" strokecolor="navy"   points="10pt,10pt,50pt,50pt,90pt,10pt"&gt;   &lt;v:stroke joinstyle="bevel"/&gt; &lt;/v:polyline&gt;</pre> <p><i>end example]</i></p>                                                     |

| Attributes                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                |  <p>joinstyle="round"</p> <p>joinstyle="bevel"</p> <p>joinstyle="miter"</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_StrokeJoinStyle simple type (§19.1.3.11).</p>                                                                                                                                                                                                                                                 |
| linestyle (Stroke Line Style)  | <p>Specifies the line style of the stroke. Default is single.</p> <ul style="list-style-type: none"> <li>• single</li> <li>• thinThin</li> <li>• thinThick</li> <li>• thickThin</li> <li>• thickBetweenThin</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke linestyle="thickThin" weight="5pt"&gt; &lt;/v:stroke&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_StrokeLineStyle simple type (§19.1.3.12).</p> |
| miterlimit (Miter Joint Limit) | <p>Specifies the smoothness of the miter joint, or the maximum distance between the inner point and outer point of a joint. This number is a multiple of the thickness of the line. Default is 8.</p> <p>[Example:</p> <pre>&lt;v:stroke joinstyle="miter" weight="10pt"   miterlimit="2"&gt; &lt;/v:stroke&gt;</pre>                                                                                                                                                                                                                                 |

| Attributes                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             |  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema decimal datatype.</p>                                                                                                                                                                                                                                                                                                                       |
| on (Stroke Toggle)          | <p>Specifies whether the stroke is displayed. Default is true. This attribute overrides the shape's stroke attribute.</p> <p>[Example:</p> <pre>&lt;v:rect style="width:50;height:50" stroked="true"   fillcolor="lime" strokecolor="red"&gt;   &lt;v:stroke on="false" weight="5pt"/&gt; &lt;/v:rect&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| opacity (Stroke Opacity)    | <p>Specifies the amount of transparency of a stroke. Default is 1.0.</p> <p>[Example:</p> <pre>&lt;v:rect style="width:50;height:50"   fillcolor="lime" strokecolor="red"&gt;   &lt;v:stroke weight="5pt" opacity="50%"/&gt; &lt;/v:rect&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                   |
| src (Stroke Image Location) | <p>Specifies the source image to load for a stroke fill. Default is no value.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

| Attributes                                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                       | <p>[Example:</p> <pre>&lt;v:stroke ... src="myimage.gif" ... &gt; &lt;/v:stroke&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                 |
| <p>startarrow (Line Start Arrowhead)</p>              | <p>Specifies an arrowhead for the start of a line. Default is none. The path shall not be closed with the x command for the arrowhead to show. Allowed values are:</p> <ul style="list-style-type: none"> <li>• none</li> <li>• block</li> <li>• classic</li> <li>• diamond</li> <li>• oval</li> <li>• open</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke startarrow="classic"/&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_StrokeArrowType simple type (§19.1.3.8).</p> |
| <p>startarrowlength (Line Start Arrowhead Length)</p> | <p>Specifies the length of the arrowhead at the start of a line. Default is medium. Allowed values are:</p> <ul style="list-style-type: none"> <li>• short</li> <li>• medium</li> <li>• long</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke ... startarrowlength="long" ... /&gt;</pre>                                                                                                                                                                                                                                      |

| Attributes                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                             | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_StrokeArrowLength simple type (§19.1.3.7).</p>                                                                                                                                                                                                                                                                                                                                                                        |
| <p>startarrowwidth<br/>(Line Start<br/>Arrowhead Width)</p> | <p>Specifies the width of the arrowhead at the start of a line. Default is medium. Allowed values are:</p> <ul style="list-style-type: none"> <li>• narrow</li> <li>• medium</li> <li>• wide</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke ... startarrowwidth="wide" ... /&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_StrokeArrowWidth simple type (§19.1.3.9).</p> |
| <p>title (Stroke Title)</p>                                 | <p>Specifies the title of an embedded stroke image. This is typically set to the comment property of the image, which is often blank.</p> <p>[Example:</p> <pre>&lt;v:fill ... o:title="alt text" ... &gt; &lt;/v:fill&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                     |
| <p>weight (Stroke Weight)</p>                               | <p>Specifies the thickness of a stroke. Default is 1. This attribute overrides the shape's strokeweight attribute.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                          |

[Note: The W3C XML Schema definition of this element's content model ([CT\\_StrokeChild](#)) is located in §A.6.2.  
*end note]*

19.2.2.7 complex (Complex)

This element specifies that a shapetype contains fragments.

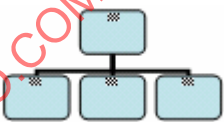
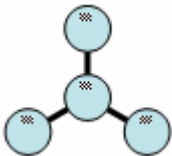
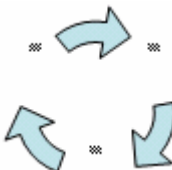
| Parent Elements                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| background (Part 1, §17.2.1); hdrShapeDefaults (§14.7.2.1); object (Part 1, §17.3.3.19); pict (§14.2.2.2); pict (§14.5.1); shapeDefaults (§14.7.2.2); shapetype (§19.1.2.20) |

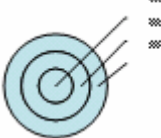
| Attributes                                                                               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ext (VML Extension Handling Behavior)<br><br>Namespace:<br>urn:schemas-microsoft-com:vml | Specifies an optional value that indicates how applications that implement VML should interpret extensions not defined as part of the original specification of core VML.<br><br>[Rationale: This part of the original VML specification is included to assist applications that leverage existing VML support in implementing the Office Open XML Format. end rationale]<br><br>The possible values for this attribute are defined by the ST_Ext simple type (§19.1.3.2). |

[Note: The W3C XML Schema definition of this element’s content model (CT\_Complex) is located in §A.6.2. end note]

19.2.2.8 diagram (VML Diagram)

This element specifies semantic information for a limited set of structured diagrams that have VML representations. Diagrams should be defined using DrawingML; this representation is included for compatibility with applications that rely on VML. The following diagram types have VML representations:

| Diagram Type       | Example (non-normative)                                                             |
|--------------------|-------------------------------------------------------------------------------------|
| Organization chart |  |
| Radial             |  |
| Cycle              |  |

| Diagram Type | Example (non-normative)                                                           |
|--------------|-----------------------------------------------------------------------------------|
| Pyramid      |  |
| Venn         |  |
| Bulls-eye    |  |

Each of these types of diagrams contains shapes that are positioned relative to one another. Each shape also has optional associated text.

| Parent Elements                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| background (Part 1, §17.2.1); group (§19.1.2.7); hdrShapeDefaults (§14.7.2.1); object (Part 1, §17.3.3.19); pict (§14.2.2.2); pict (§14.5.1); shapeDefaults (§14.7.2.2) |

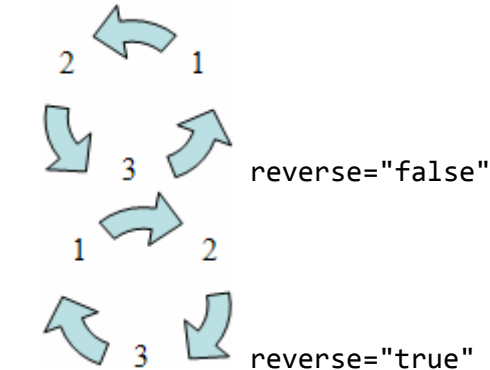
| Child Elements                             | Subclause  |
|--------------------------------------------|------------|
| relationtable (Diagram Relationship Table) | §19.2.2.25 |

| Attributes                               | Description                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| autoformat<br>(Diagram Automatic Format) | <p>Specifies whether the diagram is formatted automatically by the application and user overrides are locked. Default is false.</p> <p>[Example:</p> <pre>&lt;o:diagram ... autoformat="true"&gt; &lt;/o:diagram&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| autolayout<br>(Diagram Automatic Layout) | <p>Specifies whether the diagram elements are laid out automatically by the application and user overrides are locked. Default is true.</p>                                                                                                                                                                                                           |

| Attributes                                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                      | <p>[Example:</p> <pre>&lt;o:diagram ... autolayout="false"&gt; &lt;/o:diagram&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                     |
| <p>constrainbounds<br/>(Diagram Layout Extents)</p>  | <p>Specifies an optional, application-specific parameter related to the diagram's extents intended to be used by the application to assist laying out the diagram.</p> <p>[Example:</p> <pre>&lt;o:diagram ... constrainbounds="2910,2696,9773,9558"&gt; &lt;/o:diagram&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                 |
| <p>dgmbasetextscale<br/>(Diagram Base Font Size)</p> | <p>Specifies the diagram's original font size. This is used in subsequent font size recalculations. If the most recent diagram font size is used to calculate the font size after a rescale, the font size would be wrong after non-isometric diagram rescalings.</p> <p>[Example:</p> <pre>&lt;o:diagram ... dgmbasetextscale="12"&gt; &lt;/o:diagram&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema integer datatype.</p> |
| <p>dgmfontsize<br/>(Diagram Font Size)</p>           | <p>Specifies the font size for attached text when a new diagram node is added.</p> <p>[Example:</p> <pre>&lt;o:diagram ... dgmfontsize="12"&gt; &lt;/o:diagram&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema integer datatype.</p>                                                                                                                                                                                         |



| Attributes                                                                               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| dgmscalex<br>(Diagram Layout X Scale)                                                    | <p>Specifies an optional, application-specific parameter related to the horizontal scaling of the diagram that is intended to be used by the application to assist laying out the diagram.</p> <p>[Example:</p> <pre>&lt;o:diagram ... dgmscalex="50000"&gt; &lt;/o:diagram&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema integer datatype.</p>                                                                       |
| dgmscaley<br>(Diagram Layout Y Scale)                                                    | <p>Specifies an optional, application-specific parameter related to the vertical scaling of the diagram that is intended to be used by the application to assist laying out the diagram.</p> <p>[Example:</p> <pre>&lt;o:diagram ... dgmscaley="75000"&gt; &lt;/o:diagram&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema integer datatype.</p>                                                                         |
| dgmstyle (Diagram Style Options)                                                         | <p>Specifies an optional, application-specific parameter related to the styling of the diagram that is intended to be used by the application to assist in formatting the diagram.</p> <p>[Example:</p> <pre>&lt;o:diagram ... dgmstyle="1"&gt; &lt;/o:diagram&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema integer datatype.</p>                                                                                    |
| ext (VML Extension Handling Behavior)<br><br>Namespace:<br>urn:schemas-microsoft-com:vml | <p>Specifies an optional value that indicates how applications that implement VML should interpret extensions not defined as part of the original specification of core VML.</p> <p>[Rationale: This part of the original VML specification is included to assist applications that leverage existing VML support in implementing the Office Open XML Format. end rationale]</p> <p>The possible values for this attribute are defined by the ST_Ext simple type (§19.1.3.2).</p> |

| Attributes                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| reverse (Diagram Reverse Direction) | <p>Specifies whether the order of the diagram nodes is reversed. This is only relevant to diagrams that have linear ordering.</p> <p>[Example:</p> <pre>&lt;o:diagram ... reverse="true"&gt; &lt;/o:diagram&gt;</pre>  <p>end example</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |

[Note: The W3C XML Schema definition of this element's content model ([CT\\_Diagram](#)) is located in §A.6.2. end note]

19.2.2.9 entry (Regroup Entry)

This element specifies a single entry in a regrouptable (§19.2.2.23). Each entry is a pair mapping a current regroupid value to an old one. This is used to restore regrouping information on the regrouped object. A value of zero indicates no previous group.

[Example: The zero value of the old attribute indicates that if the shapes with regroupid 1 are regrouped, the restored group was not previously grouped with any other shapes:

```
<o:regrouptable v:ext="edit">
  <o:entry new="1" old="0"/>
</o:regrouptable>
```

end example]

| Parent Elements           |
|---------------------------|
| regrouptable (§19.2.2.23) |

| Attributes         | Description                                                                                                                                    |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| new (New Group ID) | Specifies the ID of the new group. Default is 0.<br><br>The possible values for this attribute are defined by the W3C XML Schema int datatype. |
| old (Old Group ID) | Specifies the ID of the old group. Default is 0.<br><br>The possible values for this attribute are defined by the W3C XML Schema int datatype. |

[Note: The W3C XML Schema definition of this element's content model (CT\_Entry) is located in SA.6.2. *end note*]

#### 19.2.2.10 `equationxml` (Storage for Alternate Math Content)

This element specifies XML markup for mathematical text which can be used in place of the shape data. [Note: Applications are encouraged to use an open format, such as the Math format defined in ISO/IEC 29500-1, or the MathML format, a Recommendation from the World Wide Web Consortium, available at <http://www.w3.org/TR/MathML/>. *end note*]

[Example: Consider a VML object which specifies alternate math content using MathML. This object might contain the following XML markup:

```
<v:shape>
...
<o:equationXml contentType="mathml">
  <mrow>
    <mrow>
      <msup>
        <mi>x</mi>
        <mn>2</mn>
      </msup>
      <mo>+</mo>
      <mrow>
        <mn>4</mn>
        <mo>*</mo>
        <mi>x</mi>
      </mrow>
      <mo>+</mo>
      <mn>4</mn>
    </mrow>
    <mo>=</mo>
    <mn>0</mn>
  </mrow>
</o:equationXml>
</v:shape>
```

The embedded MathML markup is stored within the `equationxml` element. *end example*

If a producer that wants interoperability supports equations, it should use one of the following standard formats:

- Office Open XML Math (Part 1, §22.1)
- W3C MathML 2.0

| Parent Elements                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| background (Part 1, §17.2.1); hdrShapeDefaults (§14.7.2.1); object (Part 1, §17.3.3.19); pict (§14.2.2.2); pict (§14.5.1); shape (§19.1.2.19); shapeDefaults (§14.7.2.2) |

| Child Elements               | Subclause |
|------------------------------|-----------|
| Any element in any namespace | n/a       |

| Attributes                                              | Description                                                                                                                                                                                                                                                 |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| contentType<br>(Content Type of Alternate Math Content) | Specifies the syntax of the markup used for the alternate math content stored in the <code>equationxml</code> attribute.<br><br>The possible values for this attribute are defined by the <code>ST_AlternateMathContentType</code> simple type (§19.2.3.1). |

[Note: The W3C XML Schema definition of this element's content model (`CT_EquationXml`) is located in §A.6.2. *end note*]

#### 19.2.2.11 extrusion (3D Extrusion)

This element specifies a parallel or perspective extrusion of a 2-D shape, creating the appearance of a 3-D shape. Lighting is controlled via two independent point light sources. Extrusions are defined as either perspective or parallel.

[Example:

```
<v:polyline points="0pt,75pt 20pt,45pt 10pt,50pt 30pt,10pt
  50pt,50pt 40pt,45pt 60pt,75pt 0pt,75pt" fillcolor="#00a000">
  <o:extrusion on="t" backdepth="20pt"
    lightposition="30000,10000,10000"/>
</v:polyline>
```



*end example]*

| Parent Elements                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arc (§19.1.2.1); background (Part 1, §17.2.1); curve (§19.1.2.3); group (§19.1.2.7); hdrShapeDefaults (§14.7.2.1); image (§19.1.2.10); line (§19.1.2.12); object (Part 1, §17.3.3.19); oval (§19.1.2.13); pict (§14.2.2.2); pict (§14.5.1); polyline (§19.1.2.15); rect (§19.1.2.16); roundrect (§19.1.2.17); shape (§19.1.2.19); shapeDefaults (§14.7.2.2); shapedefaults (§19.2.2.28); shapetype (§19.1.2.20) |

| Attributes                                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| autorotationcenter<br>(Center of Rotation Toggle) | <p>Specifies whether the center of rotation is the geometric center of the extrusion. Default is false. If true, the geometric center of an extruded shape is (0,0,0). If false, the center of rotation is determined by the rotationcenter attribute.</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                             |
| backdepth<br>(Backward Extrusion Depth)           | <p>Specifies the amount of backward extrusion. Default is 36 pt, default units are points.</p> <p>[Example:</p> <pre>&lt;o:extrusion on="true" backdepth="15pt"&gt; &lt;/o:extrusion&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                |
| brightness<br>(Brightness)                        | <p>Specifies the overall brightness of a scene. Default is 0.3. This numeric value can also be specified in 1/65536-ths if a trailing "f" is supplied (as "f" indicates the value is a fraction). For example, a value of "52429f" represents 52429/65536 or 0.8.</p> <p>This quantity is not specified using units. The numeric values are in the range 0 to 1 (0f to 65536f), where 0 implies darkness and 1 implies light saturation.</p> <p>[Example:</p> |

| Attributes                                                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                              | <pre data-bbox="456 285 1094 348">&lt;o:extrusion on="true" brightness="0.4"&gt; &lt;/o:extrusion&gt;</pre> <div data-bbox="456 386 591 520">  </div> <p data-bbox="610 499 829 531">brightness="0"</p> <div data-bbox="456 533 591 667">  </div> <p data-bbox="610 646 911 678">brightness="25000f"</p> <div data-bbox="456 672 591 806">  </div> <p data-bbox="610 785 857 816">brightness="0.4"</p> <div data-bbox="456 810 591 945">  </div> <p data-bbox="610 924 878 955">brightness="0.75"</p> <p data-bbox="415 1003 574 1035"><i>end example]</i></p> <p data-bbox="415 1073 1373 1136">The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <p data-bbox="142 1157 334 1220">color (Extrusion Color)</p> | <p data-bbox="415 1157 1461 1293">Specifies the color of the extrusion faces. This attribute is only used when colormode is custom. Colors are typically specified as either a named color, such as red, or six hexadecimal digits representing the red, green and blue values of the color, such as #00FF30. Full details are specified in the simple type description.</p> <p data-bbox="415 1335 537 1367"><i>[Example:</i></p> <pre data-bbox="456 1409 1013 1503">&lt;o:extrusion on="true" color="lime" colormode="custom"&gt; &lt;/o:extrusion&gt;</pre> <div data-bbox="415 1541 550 1675">  </div> <p data-bbox="415 1717 574 1749"><i>end example]</i></p> <p data-bbox="415 1787 1395 1850">The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p>                                                                                                                                      |

| Attributes                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>colormode</b><br>(Extrusion Color Mode) | <p>Specifies whether the extrusion color is defined by the color attribute or is the same as the shape's fill color. Default is auto.</p> <p>[Example:</p> <pre>&lt;o:extrusion on="true" color="lime"   colormode="auto"&gt; &lt;/o:extrusion&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_ColorMode simple type (§19.2.3.6).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>diffusivity</b> (Diffuse Reflection)    | <p>Specifies the amount of diffusion of reflected light from an extruded shape, defined as the ratio of incident light to diffused reflected light. Default is 1. Normal values are in the range 0 to 1. This numeric value can also be specified in 1/65536ths if a trailing "f" is supplied (as "f" indicates the value is a fraction). [Example: A value of "52429f" represents 52429/65536 or 0.8. end example]</p> <p>This quantity is not specified using units. The numeric values are in the range 0 to 1 (0f to 65536f), where 0 implies all reflected light is diffuse and 1 implies no reflected light is diffuse.</p> <p>Specularity and diffusivity should be considered together as it is possible, though physically incorrect, to define more reflected light than incident light. This is the case if the amount of specularly reflected light and diffusely reflected light add up to more than the amount of incident light.</p> <p>[Example:</p> <pre>&lt;o:extrusion on="true" diffusivity=".75"&gt; &lt;/o:extrusion&gt;</pre>  <p>diffusivity="0"</p> <p>diffusivity="0.5"</p> |

| Attributes                                                                               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                          |  <p>diffusivity="0.75"</p> <p>diffusivity="1"</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                        |
| edge (Simulated Bevel)                                                                   | <p>Specifies the apparent bevel of the extrusion edges. Default is 1 point.</p> <p>[Example:</p> <pre data-bbox="451 871 998 934">&lt;o:extrusion on="true" edge="2pt"&gt; &lt;/o:extrusion&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                     |
| ext (VML Extension Handling Behavior)<br><br>Namespace:<br>urn:schemas-microsoft-com:vml | <p>Specifies an optional value that indicates how applications that implement VML should interpret extensions not defined as part of the original specification of core VML.</p> <p>[Rationale: This part of the original VML specification is included to assist applications that leverage existing VML support in implementing the Office Open XML Format. <i>end rationale]</i></p> <p>The possible values for this attribute are defined by the ST_Ext simple type (§19.1.3.2).</p> |
| facet (Faceting Quality)                                                                 | <p>Specifies the quality with which the application approximates curved surfaces of an extrusion. A higher facet value produces shapes with smoother curves. A lower value reduces smoothing, resulting in curves with sharper, jagged edges. Default is 30000.</p> <p>Allowed values are in the range 1 to 65536, where 1 implies extremely low quality curve approximation and 65536 implies extremely high quality.</p> <p>[Example:</p>                                              |



| Attributes                             | Description                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                        | <pre>&lt;o:extrusion on="true" facet="65536"&gt; &lt;/o:extrusion&gt;</pre>  <p>facet="65536"</p> <p>facet="100"</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                            |
| foredepth (Forward Extrusion)          | <p>Specifies the amount of forward extrusion. Default is 0 pt, default units are points.</p> <p>[Example:</p> <pre>&lt;o:extrusion on="true" foredepth="25pt"&gt; &lt;/o:extrusion&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| lightface (Shape Face Lighting Toggle) | <p>Specifies whether the front face of the extrusion responds to changes in the lighting. If false, the front face does not respond when a lighting value changes. Default is true.</p> <p>[Example: The front face is colored as if the shape were not extruded and lit by a 3-D light source:</p> <pre>&lt;o:extrusion on="true" lightface="false"&gt; &lt;/o:extrusion&gt;</pre>                          |

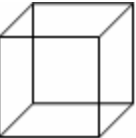
| Attributes                                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                |  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| lightharsh (Primary Light Harshness Toggle)    | <p>Specifies whether the primary light source is harsh. If false, shadow boundaries are diffused. Default is true.</p> <p>[Example: The secondary light source is turned off so only the primary has an effect:</p> <pre>&lt;o:extrusion on="true" lightharsh="false" lightlevel2="0"&gt;   &lt;/o:extrusion&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| lightharsh2 (Secondary Light Harshness Toggle) | <p>Specifies whether the secondary light source is harsh. If false, shadow boundaries defined by the secondary light source are diffused. Default is false.</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| lightlevel (Primary Light Intensity)           | <p>Specifies the intensity of the primary light source for the scene. Default is 0.6. This numeric value can also be specified in 1/65536ths if a trailing "f" is supplied (as "f" indicates the value is a fraction). [Example: A value of "52429f" represents 52429/65536 or 0.8. <i>end example]</i></p> <p>This quantity is not specified using units. The numeric values are in the range 0 to 1 (0f to 65536f), where 0 implies no direct light and 1 implies saturated direct light.</p> <p>[Example: The secondary light source is turned off so only the primary has an effect:</p>                                                                                                                                            |

| Attributes                                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                   | <pre data-bbox="456 283 1062 380">&lt;o:extrusion on="true" lightlevel=".5"   lightlevel2="0"&gt; &lt;/o:extrusion&gt;</pre> <div data-bbox="456 415 591 554">  </div> <p data-bbox="613 531 834 562">lightlevel="1"</p> <div data-bbox="456 569 591 707">  </div> <p data-bbox="613 678 867 709">lightlevel="0.5"</p> <div data-bbox="456 714 591 852">  </div> <p data-bbox="613 825 834 856">lightlevel="0"</p> <p data-bbox="415 896 574 928"><i>end example]</i></p> <p data-bbox="415 968 1373 1031">The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                  |
| <b>lightlevel2</b><br>(Secondary Light Intensity) | <p data-bbox="415 1052 1471 1188">Specifies the intensity of the secondary light source for the scene. Default is 0.6. This numeric value can also be specified in 1/65536-ths if a trailing "f" is supplied (as "f" indicates the value is a fraction). [<i>Example:</i> A value of "52429f" represents 52429/65536 or 0.8. <i>end example]</i></p> <p data-bbox="415 1230 1479 1293">This quantity is not specified using units. The numeric values are in the range 0 to 1 (0f to 65536f), where 0 implies no direct light and 1 implies saturated direct light.</p> <p data-bbox="415 1335 1373 1398">The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                      |
| <b>lightposition</b><br>(Primary Light Position)  | <p data-bbox="415 1419 1471 1556">Specifies the normalized X,Y,Z position of the primary light in a scene in 1/65536-ths. Default is "50000,0,10000". The use of a normalized vector from the shape origin effectively establishes the direction of the light relative to the shape. The distance of the light from the shape is irrelevant as the light source is treated as a directional light.</p> <p data-bbox="415 1598 1471 1661">The position "0,0,0" is at the center of the shape. Positive numbers move the light to the right, down and toward the viewer, respectively.</p> <p data-bbox="415 1703 1409 1734">[<i>Example:</i> The secondary light source is turned off so only the primary has an effect:</p> <pre data-bbox="456 1776 1062 1871">&lt;o:extrusion on="true" lightlevel2="0"   lightposition="7000,-13000,20000"&gt; &lt;/o:extrusion&gt;</pre> |

| Attributes                                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                              |  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                       |
| lightposition2<br>(Secondary Light Position) | <p>Specifies the X,Y,Z position of the secondary light in a scene in 1/65536-ths. Default is "-50000,0,10000". The use of a normalized vector from the shape origin effectively establishes the direction of the light relative to the shape. The distance of the light from the shape is irrelevant as the light source is treated as a directional light.</p> <p>The position "0,0,0" is at the center of the shape. Positive numbers move the light to the right, down and toward the viewer, respectively.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| lockrotationcenter<br>(Rotation Toggle)      | <p>Specifies whether the rotation of the extruded object is specified by the rotationangle attribute. If false, the rotation is specified by the orientation attribute. Default is true.</p> <p>[Example: The following snippets are equivalent:</p> <pre>&lt;o:extrusion lockrotationcenter="false"   orientationangle="45" orientation="0,1,0"&gt; &lt;/o:extrusion&gt;</pre> <pre>&lt;o:extrusion lockrotationcenter=true   rotationangle="45"/&gt; &lt;/o:extrusion&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| metal (Metallic Surface Toggle)              | <p>Specifies whether the surface of the extruded shape resembles metal. Default is false.</p> <p>If true, this attribute causes the specularly reflected light to be the material color instead of the light source color, making the object seem more metallic. To further approximate a metallic material requires that specularity be relatively high (about 1.2) and diffusivity be relatively low (about 0.6).</p> <p>[Example:</p>                                                                                                                                                                            |

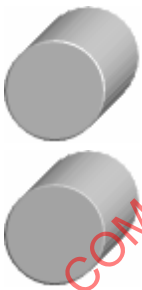
| Attributes                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             | <pre> &lt;o:extrusion on="true" metal="true"   lightposition="10000,-10000,10000"   lightlevel2="0" specular="1.2"   diffusivity="0.6"&gt; &lt;/o:extrusion&gt; </pre>  <p>metal="true"</p>  <p>metal="false"</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| on (Extrusion Toggle)       | <p>Specifies whether an extrusion is displayed. Default is false.</p> <p>[Example:</p> <pre> &lt;v:rect style="width=50;height=50"&gt;   &lt;o:extrusion /&gt; &lt;/v:rect&gt; </pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                           |
| orientation (Rotation Axis) | <p>Specifies a vector in 3D space around which the shape is rotated, as given by the orientationangle attribute. Default is "100,0,0".</p> <p>The position "0,0,0" is at the center of the shape. Positive numbers are to the right, down and toward the viewer, respectively.</p> <p>[Example:</p> <pre> &lt;o:extrusion ... orientation="200,0,0"&gt; &lt;/o:extrusion&gt; </pre>                                                                                                                                   |

| Attributes                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |       |                                   |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|-------|-----------------------------------|
|                                                    | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |       |                                   |
| <p>orientationangle<br/>(Rotation Around Axis)</p> | <p>Specifies the angle, in degrees, that an extrusion rotates around the orientation. Default is 0.</p> <p>[Example:</p> <pre>&lt;o:extrusion ... orientationangle="30"&gt; &lt;/o:extrusion&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema float datatype.</p>                                                                                                                                                                                                    |       |             |       |                                   |
| <p>plane (Extrusion Direction)</p>                 | <p>Specifies the plane that is at right angles to the extrusion. Default is xy. Allowed values are:</p> <ul style="list-style-type: none"> <li>• xy</li> <li>• zx</li> <li>• yz</li> </ul> <p>[Example:</p> <pre>&lt;o:extrusion on="true" plane="yz"   backdepth="100pt"&gt; &lt;/o:extrusion&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ExtrusionPlane simple type (§19.2.3.11).</p> |       |             |       |                                   |
| <p>render (Extrusion Render Mode)</p>              | <p>Specifies the rendering mode of the extrusion. Default is solid. Allowed values are:</p> <table border="1" data-bbox="414 1728 1260 1852"> <thead> <tr> <th>Value</th><th>Description</th></tr> </thead> <tbody> <tr> <td>solid</td><td>Rendering displays a solid shape.</td></tr> </tbody> </table>                                                                                                                                                                                                                             | Value | Description | solid | Rendering displays a solid shape. |
| Value                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |       |                                   |
| solid                                              | Rendering displays a solid shape.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |             |       |                                   |

| Attributes                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                                       |              |                                                               |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------|--------------|---------------------------------------------------------------|
|                                       | <table border="1" data-bbox="418 243 1260 405"> <tr> <td data-bbox="418 243 626 317">wireframe</td><td data-bbox="626 243 1260 317">Rendering displays a wireframe shape.</td></tr> <tr> <td data-bbox="418 317 626 405">boundingcube</td><td data-bbox="626 317 1260 405">Rendering displays the bounding cube that contains the shape.</td></tr> </table> <p data-bbox="418 443 537 474">[Example:</p> <pre data-bbox="456 516 1127 579">&lt;o:extrusion on="true" render="wireframe"&gt; &lt;/o:extrusion&gt;</pre>  <p data-bbox="418 793 578 825">end example]</p> <p data-bbox="418 863 1484 926">The possible values for this attribute are defined by the ST_ExtrusionRender simple type (§19.2.3.12).</p>                                                                                                                                                          | wireframe | Rendering displays a wireframe shape. | boundingcube | Rendering displays the bounding cube that contains the shape. |
| wireframe                             | Rendering displays a wireframe shape.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |                                       |              |                                                               |
| boundingcube                          | Rendering displays the bounding cube that contains the shape.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                       |              |                                                               |
| rotationangle (X-Y<br>Rotation Angle) | <p data-bbox="418 947 1484 1052">Specifies the rotation of the object about the x- and y-axes, in degrees. Default is "0,0". Positive angles are measured clockwise around the axis (as if viewing from the positive axis).</p> <p data-bbox="418 1089 1484 1194">The rotation of the object is defined by a rotation angle about the y-axis followed by the rotation angle about the x-axis. The z-axis angle is controlled by the value of the CSS style attribute's rotation property.</p> <p data-bbox="418 1232 537 1264">[Example:</p> <pre data-bbox="456 1306 1175 1400">&lt;o:extrusion on="t" lockrotationcenter="true" rotationangle="10,20"&gt; &lt;/o:extrusion&gt;</pre>  <p data-bbox="418 1604 578 1635">end example]</p> <p data-bbox="418 1673 1377 1736">The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |           |                                       |              |                                                               |
| rotationcenter<br>(Rotation Center)   | <p data-bbox="418 1761 1484 1824">Specifies the center of rotation for a shape if autorotationcenter is false. The offset of the rotation is specified in terms of fractions of the shape's size. Default is "0,0,0".</p> <p data-bbox="418 1862 1409 1894">The position "0,0,0" is at the center of the shape. Positive numbers are to the right,</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                       |              |                                                               |

| Attributes                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                     | <p>down and toward the viewer, respectively.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| shininess<br>(Shininess)            | <p>Specifies the concentration of the reflected light on an extrusion surface. Default is 5. The range of values should be constrained to 0-10. Reflection intensity typically grows exponentially with the shininess value.</p> <p>High values (8-10) approximate the shininess of a mirror and low values (2-3) approximate a speckled effect. Reflections do not mirror other objects; only pinpoint light sources are reflected.</p> <p>The possible values for this attribute are defined by the W3C XML Schema float datatype.</p>                                                                                                 |
| skewamt (Extrusion Skew)            | <p>Specifies the amount of skew, or length, of a parallel extrusion. Default is 50%. Applies only if the extrusion type is <code>parallel</code>. This attribute and <code>backdepth</code> interact to create the actual extrusion length. Allowed values are in the range 0 (0%) to 1 (100%).</p> <p>[Example:</p> <pre data-bbox="451 951 1063 1014">&lt;o:extrusion on="true" skewamt="100%"&gt; &lt;/o:extrusion&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| skewangle<br>(Extrusion Skew Angle) | <p>Specifies the angle of the skew of a parallel extrusion. Default is 225 degrees. Angles are measured in degrees, counterclockwise from the negative x-axis. Applies only if the extrusion type is <code>parallel</code>.</p> <p>[Example:</p> <pre data-bbox="451 1627 1063 1690">&lt;o:extrusion on="true" skewangle="25"&gt; &lt;/o:extrusion&gt;</pre>  <p>]</p>                                                                                                                                                                                |



| Attributes                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |             |          |                                                                                                                                                               |             |                                                  |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------|
|                              | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema float datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |          |                                                                                                                                                               |             |                                                  |
| specularity<br>(Specularity) | <p>Specifies the specularity of an extruded shape, defined as the ratio of incident light to specularly reflected light. Default is 0. Normal values are in the range 0 to 1. This numeric value can also be specified in 1/65536ths if a trailing "f" is supplied (as "f" indicates the value is a fraction). [Example: A value of "52429f" represents 52429/65536 or 0.8. <i>end example]</i></p> <p>Specularity and diffusity should be considered together as it is possible, though physically incorrect, to define more reflected light than incident light. This is the case if the amount of specularly reflected light and diffusely reflected light add up to more than the amount of incident light.</p> <p>[Example: The secondary light source is turned off so only the primary has an effect. Although the effect is subtle, the first cylinder has a sharper specular reflection on its edge:</p> <pre>&lt;o:extrusion on="true" specularity="1"   lightposition="10000, -10000, 10000"   lightlevel2="0"&gt; &lt;/o:extrusion&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |       |             |          |                                                                                                                                                               |             |                                                  |
| type (Extrusion Type)        | <p>Specifies the way that the shape is extruded. Default is parallel. Allowed values are:</p> <table border="1" data-bbox="415 1619 1260 1892"> <thead> <tr> <th>Value</th><th>Description</th></tr> </thead> <tbody> <tr> <td>parallel</td><td>Extrusion is rendered so that the center of projection is infinitely far away; that is, the extrusion lines do not converge (unlike perspective projections).</td></tr> <tr> <td>perspective</td><td>Extrusion is rendered to a center of projection,</td></tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Value | Description | parallel | Extrusion is rendered so that the center of projection is infinitely far away; that is, the extrusion lines do not converge (unlike perspective projections). | perspective | Extrusion is rendered to a center of projection, |
| Value                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |             |          |                                                                                                                                                               |             |                                                  |
| parallel                     | Extrusion is rendered so that the center of projection is infinitely far away; that is, the extrusion lines do not converge (unlike perspective projections).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |             |          |                                                                                                                                                               |             |                                                  |
| perspective                  | Extrusion is rendered to a center of projection,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |             |          |                                                                                                                                                               |             |                                                  |

| Attributes                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    | <div data-bbox="418 247 1260 331"> <div></div> <div>which is the same as the vanishing point for unrotated objects.</div> </div> <p data-bbox="418 373 535 401">[Example:</p> <pre data-bbox="456 443 1062 541"> &lt;o:extrusion on="true" type="parallel"   backdepth="100pt"&gt; &lt;/o:extrusion&gt; </pre> <div data-bbox="451 573 906 919">  <div>type="parallel"</div> <div>type="perspective"</div> </div> <p data-bbox="418 961 574 989">end example]</p> <p data-bbox="418 1031 1451 1094">The possible values for this attribute are defined by the ST_ExtrusionType simple type (§19.2.3.13).</p>                                                          |
| viewpoint<br>(Extrusion Viewpoint) | <p data-bbox="418 1115 1442 1178">Specifies the viewpoint of the observer in EMUs. This is effectively the end of a vector extending from the viewpointorigin.</p> <p data-bbox="418 1220 1409 1283">The position "0,0,0" is at the center of the shape. Positive numbers are to the right, down and toward the viewer, respectively.</p> <p data-bbox="418 1325 535 1352">[Example:</p> <pre data-bbox="456 1394 1110 1493"> &lt;o:extrusion on="true" type="perspective"   viewpoint="500000,-100000,100000"&gt; &lt;/o:extrusion&gt; </pre> <div data-bbox="414 1528 602 1654">  </div> <p data-bbox="418 1696 574 1724">end example]</p> <p data-bbox="418 1766 1377 1829">The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| viewpointorigin                    | Specifies the origin of the viewpoint vector for perspective extrusions. This is the origin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| Attributes                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (Extrusion Viewpoint Origin) | <p>of the vector whose opposite end is given by the viewpoint attribute. This origin is always within the bounding box of the shape. Default is "0.5,-0.5".</p> <p>The viewpoint is specified in terms of the x and y values of the original shape. The x and y values are in the range 0.5 to -0.5 (50% to -50% of the shape's coordinate origin). Larger numbers move the viewpoint outside the bounding box.</p> <p>[Example:</p> <pre data-bbox="456 569 1109 699">&lt;o:extrusion on="true" type="perspective"   viewpoint="500000,-100000,100000"   viewpointorigin="0,1"&gt; &lt;/o:extrusion&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |

[Note: The W3C XML Schema definition of this element's content model (CT Extrusion) is located in §A.6.2. *end note*]

#### 19.2.2.12 FieldCodes (WordprocessingML Field Switches)

This element specifies the WordprocessingML field switches which shall be stored with an embedded object, using the set of field switches defined by the LINK field, as specified in Part 1, §17.16. This element shall only be used within a WordprocessingML document, and shall specify the exact field switches for the field which represents the object..

[*Rationale*: Legacy word processors used fields to represent embedded objects – this element stores the field switches not explicitly defined using individual Office VML Drawing elements for embeddings so as not to use the fidelity of their contents. *end rationale*]

[Example: The following example inserts an embedded object and specifies additional properties as defined by the LINK field.

```
<o:OLEObject ...>
  <o:FieldCodes>\f 0</o:FieldCodes>
</o:OLEObject>
```

This embedded object specifies additional LINK field code values of \f 0, which specifies that the embedded object shall retain its source formatting (as defined in Part 1, §17.16).

*end example]*

The possible values for this element are defined by the W3C XML Schema string datatype.

| Parent Elements        |
|------------------------|
| OLEObject (§19.2.2.20) |

### 19.2.2.13 fill (Shape Fill Extended Properties)

This element specifies additional properties for fills. It is used to identify additional types of gradient fills beyond those specified in the fill element (§19.1.2.5).

| Parent Elements                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| background (Part 1, §17.2.1); fill (§19.1.2.5); hdrShapeDefaults (§14.7.2.1); object (Part 1, §17.3.3.19); pict (§14.2.2.2); pict (§14.5.1); shapeDefaults (§14.7.2.2) |

| Attributes                                                                               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ext (VML Extension Handling Behavior)<br><br>Namespace:<br>urn:schemas-microsoft-com:vml | <p>Specifies an optional value that indicates how applications that implement VML should interpret extensions not defined as part of the original specification of core VML.</p> <p>[<i>Rationale:</i> This part of the original VML specification is included to assist applications that leverage existing VML support in implementing the Office Open XML Format. <i>end rationale</i>]</p> <p>The possible values for this attribute are defined by the ST_Ext simple type (§19.1.3.2).</p> |
| type (Fill Type)                                                                         | <p>Specifies the type of fill. If specified, this overrides the value of the type attribute in the parent fill element.</p> <p>[<i>Example:</i> The gradientCenter value overrides gradientRadial:</p> <pre>&lt;v:fill color2="black" focus="100%" type="gradientRadial"&gt;   &lt;o:fill v:ext="view" type="gradientCenter"/&gt; &lt;/v:fill&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_FillType simple type (§19.2.3.14).</p>       |

[*Note:* The W3C XML Schema definition of this element's content model (CT\_Fill) is located in §A.6.2. *end note*]

#### 19.2.2.14 idmap (Shape ID Map)

This element specifies how shape IDs in the document have been generated. This is an optional element included to allow applications a mechanism for storing information they need to persist related to generating shape IDs.

| Parent Elements          |
|--------------------------|
| shapelayout (§19.2.2.29) |

| Attributes                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| data (Shape IDs)                            | <p>Specifies the data the application uses to generate shape IDs.</p> <p>[<i>Example:</i> An application might choose to reserve blocks of shape ID numbers for each part in the package. Each block of 1024 shape IDs could be referred to by index and this index stored in the data attribute. The data value for a given part might then be:</p> <pre>&lt;o:idmap v:ext="edit" data="1"/&gt;</pre> <p>indicating that all the IDs in block 1 are reserved by this part ( meaning shape IDs from 1 to 1024 cannot be used ). The application's internal constraint would be that each part reserve a different set of IDs. Another part, that contains more shapes, might use:</p> <pre>&lt;o:idmap v:ext="edit" data="2,3"/&gt;</pre> <p>In this case, shape IDs from 1025 to 3072 [ 3 x 1024 ] cannot be used ).</p> <p>Another implementation might choose to store more verbose information in this attribute. Yet another implementation might ignore this element completely.</p> <p><i>end example</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| ext (VML Extension Handling Behavior)       | <p>Specifies an optional value that indicates how applications that implement VML should interpret extensions not defined as part of the original specification of core VML.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Namespace:<br>urn:schemas-microsoft-com:vml | <p>[<i>Rationale:</i> This part of the original VML specification is included to assist applications that leverage existing VML support in implementing the Office Open XML Format. <i>end rationale</i>]</p> <p>The possible values for this attribute are defined by the ST_Ext simple type (§19.1.3.2).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

[*Note:* The W3C XML Schema definition of this element's content model ([CT\\_IdMap](#)) is located in §A.6.2. *end note*]

### 19.2.2.15 ink (Ink)

This element specifies the presence of an ink object. An ink object is a VML object which allows applications to store data for ink annotations. [Note: Applications are encouraged to use an open-ink format, such as the Ink Markup Language (InkML). *end note*]

[Example:

```
<v:shape ... >
  <o:ink i="..." annotation="t" contentType="application/inkml+xml"/>
</v:shape>
<v:shape ... >
  <o:ink i="AMgFHQSWC+YFASAAaAwAAAAAMA..." annotation="t"
    contentType="application/x-ms-ink"/>
</v:shape>
```

*end example]*

| Parent Elements                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| background (Part 1, §17.2.1); hdrShapeDefaults (§14.7.2.1); object (Part 1, §17.3.3.19); pict (§14.2.2.2); pict (§14.5.1); polyline (§19.1.2.15); shape (§19.1.2.19); shapeDefaults (§14.7.2.2) |

| Attributes                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| annotation<br>(Annotation Flag) | <p>Specifies whether the ink object was created as an annotation rather than through pen input. Default is false. [Rationale This allows an application to treat annotation ink objects as any other annotation. For example, if annotations are hidden, the application can hide the ink object. An ink object that represents primary user input through a pen can be left visible. <i>end rationale</i>]</p> <p>[Example:</p> <pre>&lt;o:ink ... annotation="true"&gt; &lt;/o:ink&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| contentType<br>(Content Type)   | <p>Specifies the format of the ink content stored in the i attribute. The syntax is a content type as defined in IETF RFC 2616.</p> <p>If this attribute is omitted, the application should attempt to determine the content type by reading the contents of the i element.</p> <p>The possible values for this attribute are defined by the ST_ContentType simple type</p>                                                                                                                                                                                                                                                      |

| Attributes   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              | (§19.2.3.9).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| i (Ink Data) | <p>Specifies additional ink object information which shall be associated with the parent VML shape. The VML shape specifies the information necessary to render the ink, and this attribute can be used to store additional data about the VML shape(s) representing ink. This attribute's contents are formatted as specified by the content Type attribute, but are optional and can be ignored if not recognized.</p> <p>[Example:</p> <pre data-bbox="451 583 695 646">&lt;o:ink ... i="..."&gt; &lt;/o:ink&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |

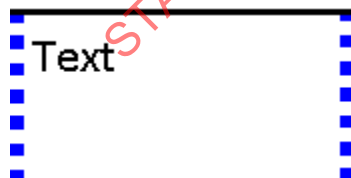
[Note: The W3C XML Schema definition of this element's content model ([CT\\_Ink](#)) is located in §A.6.2. end note]

#### 19.2.2.16 left (Text Box Left Stroke)

This element specifies the stroke properties for the left border of a text box. It entirely supercedes its parent stroke element if its on attribute is true. Thus the default value of an unspecified attribute overrides a value specified in the parent. If the on attribute is false or not specified, the border is not shown.

[Example: The text box borders are set independently. The bottom border does not inherit the weight from the parent stroke element.

```
<v:stroke weight="2.25pt">
  <o:left v:ext="view" dashstyle="1 1" color="blue" weight="5pt" on="t"/>
  <o:top v:ext="view" color="black" weight="2.25pt" on="t"/>
  <o:right v:ext="view" dashstyle="1 1" color="blue" weight="5pt" on="t"/>
  <o:bottom v:ext="view" color="black" on="t"/>
  <o:column v:ext="view" color="#f60" on="t"/>
</v:stroke>
```

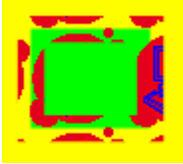


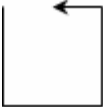
end example]

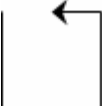
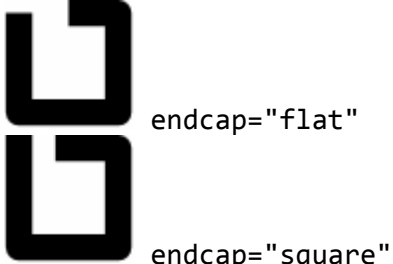
| Parent Elements                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| background (Part 1, §17.2.1); hdrShapeDefaults (§14.7.2.1); object (Part 1, §17.3.3.19); pict (§14.2.2.2); pict (§14.5.1); shapeDefaults (§14.7.2.2); stroke (§19.1.2.21) |

| Attributes                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| alhref (Alternate Image Reference)      | <p>Specifies an alternate reference for an image in Macintosh PICT format.</p> <p>[Example:</p> <pre>&lt;v:stroke ... alhref="myimage.pcz" ... &gt; &lt;/v:stroke&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| color (Stroke Color)                    | <p>Specifies the stroke color. Overrides the strokecolor attribute of a shape. Default is black. See the fillcolor attribute for a list of supported named colors.</p> <p>[Example: The shape stroke is blue:</p> <pre>&lt;v:shape ... strokecolor="red" ... &gt;   &lt;v:stroke color="blue"/&gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p>                                                                                                                                                                                                                                                                                                                                                                                                      |
| color2 (Stroke Alternate Pattern Color) | <p>Specifies a second color for strokes, used when filltype is pattern. Default is no value.</p> <p>When a pattern fill is used for the stroke, the stroke color is used in colored parts of the source image. The color2 defines an alternate color to use in place of black in the source image.</p> <p>[Example: This unusual example is intended to demonstrate how the image and colors interact to create a patterned stroke. The yellow background shows transparency. The non-square shape and square image create an effective offset. The heavy stroke weight shows more of the image. The green shape fill shows how the stroke is overlaid on the shape.</p> <pre>&lt;v:background fillcolor="yellow"/&gt; &lt;v:shape style="width:60;height:50"   strokecolor="red" fillcolor="lime"   path="m 0,0 l 0,1000 1000,1000 1000,0 x e"&gt;</pre> |



| Attributes                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                 | <pre>&lt;v:stroke filltype="pattern" weight="10pt"   src="myimage.gif" color2="blue"/&gt; &lt;/v:shape&gt;</pre>  <p>, where myimage.gif is: </p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| dashstyle (Stroke Dash Pattern) | <p>Specifies the dot and dash pattern for a stroke. Default is solid. Pre-defined values are:</p> <ul style="list-style-type: none"> <li>• solid</li> <li>• shortdash</li> <li>• shortdot</li> <li>• shortdashdot</li> <li>• shortdashdotdot</li> <li>• dot</li> <li>• dash</li> <li>• longdash</li> <li>• dashdot</li> <li>• longdashdot</li> <li>• longdashdotdot</li> </ul> <p>A custom-defined dash pattern can also be specified using a series of numbers. These define the length of the dash (the drawn part of the stroke) and the length of the space between the dashes. The lengths are relative to the line width: a length of 1 is equal to the line width. The endcap style is applied to each dash but the arrow style is not. The string defines the length of the dash then the length of the space. This can be repeated to form complex dash styles. The string should always contain a pair of numbers; if it contains an odd number of numbers the last is disregarded. 0 implies a dot that is fourfold symmetrical (with round end caps, this is a circle).</p> <p>[Example:</p> <pre>&lt;v:stroke dashstyle="0 2" weight="3pt"   endcap="round"&gt; &lt;/v:stroke&gt;</pre>  |

| Attributes                                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                   | <pre>&lt;v:stroke dashstyle="longdashdotdot"   weight="2pt"&gt; &lt;/v:stroke&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                             |
| <p>endarrow (Line End Arrowhead)</p>              | <p>Specifies an arrowhead for the end of a line. Default is none. The path shall not be closed with the x command for the arrowhead to show. Allowed values are:</p> <ul style="list-style-type: none"> <li>• none</li> <li>• block</li> <li>• classic</li> <li>• diamond</li> <li>• oval</li> <li>• open</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke endarrow="classic"/&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_StrokeArrowType simple type (§19.1.3.8).</p> |
| <p>endarrowlength (Line End Arrowhead Length)</p> | <p>Specifies the length of the arrowhead at the end of a line. Default is medium. Allowed values are:</p> <ul style="list-style-type: none"> <li>• short</li> <li>• medium</li> <li>• long</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke ... endarrowlength="long" ... /&gt;</pre>                                                                                                                                                                                                                                                                                                                                |

| Attributes                                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                |  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_StrokeArrowLength simple type (§19.1.3.7).</p>                                                                                                                                                                                                                                                                                                                                       |
| endarrowwidth<br>(Line End<br>Arrowhead Width) | <p>Specifies the width of the arrowhead at the end of a line. Default is <code>medium</code>. Allowed values are:</p> <ul style="list-style-type: none"> <li>• <code>narrow</code></li> <li>• <code>medium</code></li> <li>• <code>wide</code></li> </ul> <p>[Example:</p> <pre>&lt;v:stroke ... endarrowwidth="wide" ... /&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_StrokeArrowWidth simple type (§19.1.3.9).</p> |
| endcap (Line End<br>Cap)                       | <p>Specifies the cap style for the end of a stroke. Default is <code>flat</code>. Allowed values are:</p> <ul style="list-style-type: none"> <li>• <code>flat</code></li> <li>• <code>square</code></li> <li>• <code>round</code></li> </ul> <p>[Example:</p> <pre>&lt;v:stroke ... endcap="round" weight="10pt" ... /&gt;</pre>  <p><i>end example]</i></p>                                                                                                                   |

| Attributes                                                                                       | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                  |  <p>endcap="round"</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_StrokeEndCap simple type (§19.1.3.10).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <p>ext (VML Extension Handling Behavior)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:VML</p> | <p>Specifies an optional value that indicates how applications that implement VML should interpret extensions not defined as part of the original specification of core VML.</p> <p>[<i>Rationale:</i> This part of the original VML specification is included to assist applications that leverage existing VML support in implementing the Office Open XML Format. <i>end rationale]</i></p> <p>The possible values for this attribute are defined by the ST_Ext simple type (§19.1.3.2).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <p>filltype (Stroke Image Style)</p>                                                             | <p>Specifies the kind of fill used for the background of a stroke. Default is solid. Allowed values are:</p> <ul style="list-style-type: none"> <li>• solid - The fill pattern is solid.</li> <li>• tile - The fill image is tiled.</li> <li>• pattern - The fill image is stretched to form a pattern.</li> <li>• frame - The fill image becomes a border for the shape.</li> </ul> <p>[<i>Example:</i></p> <pre>&lt;v:shape style="width:50;height:50"   strokecolor="red"   path="m 0,0 l 0,1000 1000,1000 1000,0 x e"&gt;   &lt;v:stroke filltype="frame" weight="10pt"     src="border.gif"/&gt; &lt;/v:shape&gt;</pre>  <p>, where border.gif is: </p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_FillType simple type (§19.1.3.4).</p> |
| <p>forcedash (Force Dashed Outline)</p>                                                          | <p>Specifies whether a dashed outline is used to draw a shape when a shape has no line or fill. Default is false.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

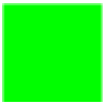
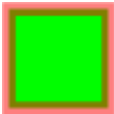
| Attributes                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                         | <p>Used by PresentationML placeholders to draw a dashed outline when there is no line and no fill for a shape.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:forcedash="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                            |
| href (Original Image Reference)         | <p>Specifies the URL to the original image file. Used only if the picture has been linked and embedded. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:fill ... o:href="myimage.gif" ... &gt; &lt;/v:fill&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                    |
| imagealignshape (Stoke Image Alignment) | <p>Specifies the alignment of the stroke image. If true, the image is aligned with the shape. Otherwise, it is aligned with the containing scope. Default is true.</p> <p>[Example: The top position offset shifts the image alignment relative to the containing window:</p> <pre>&lt;v:shape fillcolor="silver" style="top:20;width:50;height:50" path="m 0,0 l 0,1000 1000,1000 1000,0 x e"&gt; &lt;v:stroke imagealignshape="false" weight="20pt" filltype="tile" src="myimage.gif"/&gt; &lt;/v:shape&gt;</pre> <div data-bbox="451 1570 609 1724">  </div> <p>imagealignshape="false"</p> |

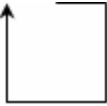
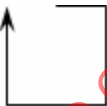
| Attributes                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                       |         |                                        |        |                                    |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|--------|-----------------------|---------|----------------------------------------|--------|------------------------------------|
|                                                    |  <p><code>imagealignshape="false"</code></p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                       |         |                                        |        |                                    |
| <p>imageaspect<br/>(Stroke Image Aspect Ratio)</p> | <p>Specifies how the stroke image aspect ratio is preserved. Default is ignore. Allowed values are:</p> <table border="1" data-bbox="417 703 1320 898"> <tr> <th>Value</th><th>Description</th></tr> <tr> <td>ignore</td><td>Ignore aspect issues.</td></tr> <tr> <td>atleast</td><td>Image is at least as big as imagesize.</td></tr> <tr> <td>atmost</td><td>Image is no bigger than imagesize.</td></tr> </table> <p>[Example:</p> <pre>&lt;v:stroke filltype="frame" weight="10pt"   src="border.gif" imagealignshape="true"   imageaspect="atleast"&gt; &lt;/v:stroke&gt;</pre>  <p><code>imagealignshape="ignore"</code></p> <p><code>imagealignshape="atleast"</code></p> <p><code>imagealignshape="atmost"</code></p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ImageAspect simple type (§19.1.3.5).</p> | Value | Description | ignore | Ignore aspect issues. | atleast | Image is at least as big as imagesize. | atmost | Image is no bigger than imagesize. |
| Value                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                       |         |                                        |        |                                    |
| ignore                                             | Ignore aspect issues.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |             |        |                       |         |                                        |        |                                    |
| atleast                                            | Image is at least as big as imagesize.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |             |        |                       |         |                                        |        |                                    |
| atmost                                             | Image is no bigger than imagesize.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |             |        |                       |         |                                        |        |                                    |
| <p>imagesize (Stroke Image Size)</p>               | <p>Specifies the size of the image for the stroke. Default is the size of the image.</p> <p>[Example:</p> <pre>&lt;v:stroke ... imagesize="10pt,10pt" ... /&gt;</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |             |        |                       |         |                                        |        |                                    |

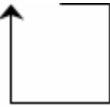
| Attributes                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                   | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| insetpen (Inset Border From Path) | <p>Specifies that the border shall be displayed inside of the path defining the shape, rather than along the path (the default border placement), or outside of the path as might be done with an image.</p> <p>[Example:</p> <pre>&lt;v:shape ... insetpen="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                           |
| joinstyle (Line End Join Style))  | <p>Specifies the join style for line ends. Default is round.</p> <ul style="list-style-type: none"> <li>• round</li> <li>• bevel</li> <li>• miter</li> </ul> <p>[Example:</p> <pre>&lt;v:polyline strokeweight="10pt" strokecolor="navy" points="10pt,10pt,50pt,50pt,90pt,10pt"&gt; &lt;v:stroke joinstyle="bevel"/&gt; &lt;/v:polyline&gt;</pre> <div style="display: flex; align-items: center; margin-top: 20px;">  <div style="margin-left: 20px;"> <p>joinstyle="round"</p> <p>joinstyle="bevel"</p> <p>joinstyle="miter"</p> </div> </div> <p><i>end example]</i></p> |

| Attributes                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                | The possible values for this attribute are defined by the ST_StrokeJoinStyle simple type (§19.1.3.11).                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| linestyle (Stroke Line Style)  | <p>Specifies the line style of the stroke. Default is single.</p> <ul style="list-style-type: none"> <li>• single</li> <li>• thinThin</li> <li>• thinThick</li> <li>• thickThin</li> <li>• thickBetweenThin</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke linestyle="thickThin" weight="5pt"&gt; &lt;/v:stroke&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_StrokeLineStyle simple type (§19.1.3.12).</p> |
| miterlimit (Miter Joint Limit) | <p>Specifies the smoothness of the miter joint, or the maximum distance between the inner point and outer point of a joint. This number is a multiple of the thickness of the line. Default is 8.</p> <p>[Example:</p> <pre>&lt;v:stroke joinstyle="miter" weight="10pt"   miterlimit="2"&gt; &lt;/v:stroke&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema decimal datatype.</p>              |
| on (Stroke Toggle)             | <p>Specifies whether the stroke is displayed. Default is true. This attribute overrides the shape's stroke attribute.</p> <p>[Example:</p>                                                                                                                                                                                                                                                                                                                                                                                                   |



| Attributes                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                   | <pre>&lt;v:rect style="width:50;height:50" stroked="true"   fillcolor="lime" strokecolor="red"&gt;   &lt;v:stroke on="false" weight="5pt"/&gt; &lt;/v:rect&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                           |
| opacity (Stroke Opacity)          | <p>Specifies the amount of transparency of a stroke. Default is 1.0.</p> <p>[Example:</p> <pre>&lt;v:rect style="width:50;height:50"   fillcolor="lime" strokecolor="red"&gt;   &lt;v:stroke weight="5pt" opacity="50%"/&gt; &lt;/v:rect&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| src (Stroke Image Location)       | <p>Specifies the source image to load for a stroke fill. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:stroke ... src="myimage.gif" ... &gt; &lt;/v:stroke&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                            |
| startarrow (Line Start Arrowhead) | <p>Specifies an arrowhead for the start of a line. Default is none. The path shall not be closed with the x command for the arrowhead to show. Allowed values are:</p> <ul style="list-style-type: none"> <li>• none</li> </ul>                                                                                                                                                                                                                                    |

| Attributes                                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                      | <ul style="list-style-type: none"> <li>• block</li> <li>• classic</li> <li>• diamond</li> <li>• oval</li> <li>• open</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke startarrow="classic"/&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_StrokeArrowType simple type (§19.1.3.8).</p>                                                                                         |
| startarrowlength<br>(Line Start<br>Arrowhead Length) | <p>Specifies the length of the arrowhead at the start of a line. Default is medium. Allowed values are:</p> <ul style="list-style-type: none"> <li>• short</li> <li>• medium</li> <li>• long</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke ... startarrowlength="long" ... /&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_StrokeArrowLength simple type (§19.1.3.7).</p> |
| startarrowwidth<br>(Line Start<br>Arrowhead Width)   | <p>Specifies the width of the arrowhead at the start of a line. Default is medium. Allowed values are:</p> <ul style="list-style-type: none"> <li>• narrow</li> <li>• medium</li> <li>• wide</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke ... startarrowwidth="wide" ... /&gt;</pre>                                                                                                                                                                                                                         |

| Attributes             | Description                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        |  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_StrokeArrowWidth simple type (§19.1.3.9).</p>                                                                                                                                                               |
| title (Stroke Title)   | <p>Specifies the title of an embedded stroke image. This is typically set to the comment property of the image, which is often blank.</p> <p>[Example:</p> <pre data-bbox="451 751 971 821">&lt;v:fill ... o:title="alt text" ... &gt; &lt;/v:fill&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| weight (Stroke Weight) | <p>Specifies the thickness of a stroke. Default is 1. This attribute overrides the shape's strokeweight attribute.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                  |

[Note: The W3C XML Schema definition of this element's content model (CT\_StrokeChild) is located in §A.6.2.  
*end note]*

#### 19.2.2.17 LinkType (Embedded Object Alternate Image Request)

This element specifies the kind of image which shall be requested from an embedded object's host application when the contents of a linked image are updated within a document. When linked images are stored in documents, the only items stored in the document are an image representation and a link to the source. This element specifies the kind of image which shall be requested from the source on update.

[Note: The formats available can vary based on the kind of embedded object - this information is typically queried from the embedded object's application before it is stored. This setting can be omitted, and is usually stored for performance reasons, so it is not queried on each update of the linked object. *end note]*

The possible values for this element are defined by the ST\_OLELinkType simple type (§19.2.3.19).

| Parent Elements        |
|------------------------|
| OLEObject (§19.2.2.20) |

[*Note:* The W3C XML Schema definition of this element's content model ([ST\\_OLELinkType](#)) is located in §A.6.2.  
*end note*]

### 19.2.2.18 lock (Shape Protections)

This element specifies locks against actions that can be effected in the UI of an authoring application or programmatically through an object model.

[*Example:* The following snippet locks the shape's aspect ratio and text from user edits.

```
<v:shape ... >
  <o:lock v:ext="edit" aspectratio="t" text="t"/>
</v:shape>
```

*end example*]

| Parent Elements                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arc (§19.1.2.1); background (Part 1, §17.2.1); curve (§19.1.2.3); group (§19.1.2.7); hdrShapeDefaults (§14.7.2.1); image (§19.1.2.10); line (§19.1.2.12); object (Part 1, §17.3.3.19); oval (§19.1.2.13); pict (§14.2.2.2); pict (§14.5.1); polyline (§19.1.2.15); rect (§19.1.2.16); roundrect (§19.1.2.17); shape (§19.1.2.19); shapeDefaults (§14.7.2.2); shapedefaults (§19.2.2.28); shapetype (§19.1.2.20) |

| Attributes                            | Description                                                                                                                                                                                                 |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| adjusthandles<br>(Handles Lock)       | Specifies whether the handles of a shape are locked from being edited. Default is <i>false</i> .<br><br>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).     |
| aspectratio (Aspect Ratio Lock)       | Specifies whether the aspect ratio of a shape is locked from being edited. Default is <i>false</i> .<br><br>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5). |
| cropping (Cropping Lock)              | Specifies whether cropping of a shape is locked from being edited. Default is <i>false</i> .<br><br>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).         |
| ext (VML Extension Handling Behavior) | Specifies an optional value that indicates how applications that implement VML should interpret extensions not defined as part of the original specification of core VML.                                   |
| Namespace:                            | [ <i>Rationale:</i> This part of the original VML specification is included to assist applications                                                                                                          |

| Attributes                      | Description                                                                                                                                                                                                                                                           |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| urn:schemas-microsoft-com:vml   | that leverage existing VML support in implementing the Office Open XML Format. <i>end rationale</i><br><br>The possible values for this attribute are defined by the ST_Ext simple type (§19.1.3.2).                                                                  |
| grouping (Grouping Lock)        | Specifies whether a shape is locked from being grouped. Default is false.<br><br>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).                                                                                      |
| position (Position Lock)        | Specifies whether the position of a shape is locked from being edited. Default is false.<br><br>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).                                                                       |
| rotation (Rotation Lock)        | Specifies whether the rotation of a shape is locked from being edited. Default is false.<br><br>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).                                                                       |
| selection (Selection Lock)      | Specifies whether the shape is locked from being selectable in an editor. Default is false.<br><br>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).                                                                    |
| shapetype (AutoShape Type Lock) | Specifies whether the AutoShape type is locked from being edited. Default is false. If true, the type of an AutoShape cannot be changed in a graphical editor.<br><br>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5). |
| text (Text Lock)                | Specifies whether the text attached to a shape is locked from being edited. Default is false.<br><br>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).                                                                  |
| ungrouping (Ungrouping Lock)    | Specifies whether a grouped shape is locked from being ungrouped. Default is false.<br><br>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).                                                                            |
| vertices (Vertices Lock)        | Specifies whether the vertices of a path are locked from being edited. Default is false.<br><br>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).                                                                       |

[Note: The W3C XML Schema definition of this element's content model (CT\_Lock) is located in §A.6.2. *end note*]

19.2.2.19      **LockedField (Embedded Object Cannot Be Refreshed)**

This element specifies that the embedded object's appearance is locked - that is, that the object's current representation shall be locked to prevent any user interaction or automatic application behavior from modifying its contents.

This element shall contain no content - its presence indicates that the embedded object is locked, and its omission allows the field to be updated.

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements        |
|------------------------|
| OLEObject (§19.2.2.20) |

[*Note:* The W3C XML Schema definition of this element's content model (ST\_TrueFalseBlank) is located in §A.7.9. *end note*]

19.2.2.20      **OLEObject (Embedded OLE Object)**

This element specifies an embedded object.

[*Example:* The following markup defines a reference to an embedded object using Bonobo. The ProgId attribute contains the shared library that contains the widget. The content type of the referred part identifies the referenced Bonobo object.

```
<OLEObject r:id="rb1" ProgId="OAFIID:Bonobo_Sample_Calculator">
...
</OLEObject>
```

The target of the relationship with ID rb1, defines the Bonobo object itself. This example shows a link to a sample Bonobo widget taken from the article <http://www.ibm.com/developerworks/webservices/library/co-bnbo2.html>, which also provides an introduction to Bonobo. *end example*]

[*Example:* The following demonstrates a video file embedded in a WordprocessingML document:

```
<w:object ...>
  <v:shape id="_x0000_i1025" type="#_x0000_t75"
    style="width:1in;height:24pt" o:ole="">
    <v:imagedata r:id="rId4" o:title=""/>
  </v:shape>
  <o:OLEObject Type="Embed" ProgID="AVIFile" ShapeID="_x0000_i1025"
    DrawAspect="Content" ObjectID="_1219561732" r:id="rId5"/>
</w:object>
```

*end example*]

| Parent Elements                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------|
| background (Part 1, §17.2.1); hdrShapeDefaults (§14.7.2.1); object (Part 1, §17.3.3.19); pict (§14.2.2.2); pict (§14.5.1); shapeDefaults (§14.7.2.2) |

| Child Elements                                     | Subclause  |
|----------------------------------------------------|------------|
| FieldCodes (WordprocessingML Field Switches)       | §19.2.2.12 |
| LinkType (Embedded Object Alternate Image Request) | §19.2.2.17 |
| LockedField (Embedded Object Cannot Be Refreshed)  | §19.2.2.19 |

| Attributes                                                                       | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DrawAspect<br>(Embedded Object Representation)                                   | <p>Specifies how the embedded object is represented visually in the application.</p> <p>[Example:</p> <pre>&lt;o:OLEObject ... DrawAspect="Content"&gt; &lt;/o:OLEObject&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_OLEDrawAspect simple type (§19.2.3.18).</p>                                                                                                                                                   |
| id (Relationship)<br><br>Namespace:<br>.../officeDocument<br>/2006/relationships | <p>Specifies the actual OLE object using a standard part relationship lookup.</p> <p>[Example:</p> <pre>&lt;o:OLEObject ... r:id="rId5"&gt; &lt;/o:OLEObject&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_RelationshipId simple type (Part 1, §22.8.2.1).</p>                                                                                                                                                       |
| ObjectID (Unique ID for Embedded Object)                                         | <p>Specifies a unique ID identifying the embedded object.</p> <p>[Example: The following markup defines a reference to a linked object using KParts. The name attribute contains the shared library that contains the plugin. The item element contains the name of the plugin. The content type of the referred part would identifies the referenced KParts object.</p> <pre>&lt;oleLink r:id="rKp1" progId="libhtmlvalidatorplugin"&gt; ... &lt;/oleLink&gt;</pre> |

| Attributes                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                 | <p>The following XML, contained in the target of the relationship with ID rKp1, defines the KPart object, and follows the kpartgui DTD:</p> <pre>&lt;!DOCTYPE kpartgui SYSTEM "kpartgui.dtd"&gt; &lt;kpartgui library="libhtmlvalidatorplugin" name="htmlvalidatorplugin" version="1" &gt;   &lt;MenuBar&gt;     &lt;Menu name="tools"&gt;&lt;Text&gt;&amp;Tools&lt;/Text&gt;       &lt;Action name="validatewebpage"/&gt;     &lt;/Menu&gt;   &lt;/MenuBar&gt; &lt;/kpartgui&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| ProgID (Object Link Identifier) | <p>Specifies the embedded object server application associated with the embedded object.</p> <p>[Example:</p> <pre>&lt;o:OLEObject ... ProgID="AVIFile"&gt; &lt;/o:OLEObject&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                  |
| ShapeID (Embedded Object Shape) | <p>Specifies the shape with which the embedded object is associated. A VML shape provides the visual placeholder for an embedded object and this attribute is set to the id of the placeholder shape.</p> <p>[Example:</p> <pre>&lt;o:OLEObject ... ShapeID="_x0000_i1025"&gt; &lt;/o:OLEObject&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                               |
| Type (Embedded Object Type)     | <p>Specifies the kind of embedded object connection.</p> <p>[Example:</p> <pre>&lt;o:OLEObject ... Type="Embed"&gt;</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |



| Attributes                                                  | Description                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                             | <p>&lt;/o:OLEObject&gt;</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_OLEType simple type (§19.2.3.20).</p>                                                                                                                                                                                               |
| <p>UpdateMode<br/>(Update Mode for<br/>Embedded Object)</p> | <p>Specifies how the object is updated with new data if the Type is Link - automatically or on-demand by the user.</p> <p>[Example:</p> <pre>&lt;o:OLEObject ... UpdateMode="Always"&gt; &lt;/o:OLEObject&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_OLEUpdateMode simple type (§19.2.3.21).</p> |

[Note: The W3C XML Schema definition of this element's content model (CT\_OLEObject) is located in §A.6.2. *end note]*

#### 19.2.2.21 proxy (Shape Reference)

This element specifies an entry in a `r` element rule that contains a reference to one or more shapes that are participating in the rule.

[Example: The following rule defines a connection between two shapes. The shape with id `_s1036` connects shape `_s1033` to `_s1032`:

```
<o:shapelayout v:ext="edit">
  <o:rules v:ext="edit">
    <o:r id="V:Rule1" type="connector" idref="#_s1036">
      <o:proxy start="" idref="#_s1033" connectloc="0"/>
      <o:proxy end="" idref="#_s1032" connectloc="2"/>
    </o:r>
  </o:rules>
</o:shapelayout>
```

*end example]*

| Parent Elements |
|-----------------|
| r (§19.2.2.22)  |

| Attributes                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| connectloc<br>(Connection Location) | <p>Specifies the location on the shape where the connector is attached. The value is an index into the list of connection points defined in the shape - see the connectlocs attribute. Default is 0. Only used in a connector rule.</p> <p>The possible values for this attribute are defined by the W3C XML Schema int datatype.</p>                                                                                                                                                                     |
| end (End Point Connection Flag)     | <p>Specifies whether the connector's end point is connected to the shape. Default is false. Only used in a connector rule.</p> <p>The possible values for this attribute are defined by the ST_TrueFalseBlank simple type (§20.1.2.6).</p>                                                                                                                                                                                                                                                                |
| idref (Proxy Shape Reference)       | <p>Specifies a reference to a shape in the current document. Default is no value. A shape name is used as the reference mechanism; this is not a relationship ID.</p> <p>This attribute indicates that the referenced shape is part of this rule. Two or more proxy elements are used for an alignment rule. A connector rule uses one or two, indicating which shapes the connector is attached to.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| start (Start Point Connection Flag) | <p>Specifies whether the connector's start point is connected to the shape. Default is false. Only used in a connector rule. If both start and end are specified the later one takes precedence.</p> <p>The possible values for this attribute are defined by the ST_TrueFalseBlank simple type (§20.1.2.6).</p>                                                                                                                                                                                          |

[Note: The W3C XML Schema definition of this element's content model (CT\_Proxy) is located in §A.6.2. *end note*]

#### 19.2.2.22 r (Rule)

This element specifies a rule entry in a rules element rule set that describes how a certain shape or set of shapes behaves during editing.

[Example: The following rule defines a connection between two shapes. The shape with id \_s1036 connects shape \_s1033 to \_s1032:

```
<o:shapelayout v:ext="edit">
  <o:rules v:ext="edit">
    <o:r id="V:Rule1" type="connector" idref="#_s1036">
      <o:proxy start="" idref="#_s1033" connectloc="0"/>
      <o:proxy end="" idref="#_s1032" connectloc="2"/>
    </o:r>
  </o:rules>
```

</o:shapelayout>

*end example]*

| Parent Elements    |
|--------------------|
| rules (§19.2.2.27) |

| Child Elements          | Subclause  |
|-------------------------|------------|
| proxy (Shape Reference) | §19.2.2.21 |

| Attributes                   | Description                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| how (Alignment Rule Type)    | <p>Specifies the kind of alignment for an alignment rule. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• top</li> <li>• middle</li> <li>• bottom</li> <li>• left</li> <li>• center</li> <li>• right</li> </ul> <p>The possible values for this attribute are defined by the ST_How simple type (§19.2.3.15).</p>                                       |
| id (Rule ID)                 | <p>Specifies an identifier for the rule. Default is no value.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                            |
| idref (Rule Shape Reference) | <p>Specifies a reference to a shape in the current document that is the primary shape in the rule. [<i>Example:</i> For a connector rule, the connector. <i>end example</i>]</p> <p>Default is no value. A shape name is used as the reference mechanism; this is not a relationship ID.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| type (Rule Type)             | <p>Specifies the kind of the rule. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• arc</li> <li>• callout</li> <li>• connector</li> <li>• align</li> </ul>                                                                                                                                                                                              |

| Attributes | Description                                                                                  |
|------------|----------------------------------------------------------------------------------------------|
|            | The possible values for this attribute are defined by the ST_RType simple type (§19.2.3.22). |

[*Note:* The W3C XML Schema definition of this element's content model (CT\_R) is located in §A.6.2. *end note*]

### 19.2.2.23 regroupable (Shape Grouping History)

This element specifies a list of entries which describe how shapes were previously grouped so they can be regrouped. The regroupid attribute of shapes indicates which shapes belong together when a regroup is performed. The regrouptable tracks the previous regroupid that should be assigned to all shapes with the given current regroupid.

[*Example:* Consider a document containing two rectangles and a circle. The rectangles are grouped together, then that group is grouped with the circle. This new group is then ungrouped, leaving the circle and grouped rectangles. The document might contain the following snippets:

```
<v:oval ... o:regroupid="1"/>
<v:group ... o:regroupid="1"/>
  <v:rect ... />
  <v:rect ... />
</v:group>

<o:regrouptable v:ext="edit">
  <o:entry new="1" old="0"/>
</o:regrouptable>
```

The regroupid attribute indicates that the shapes with regroupid 1 were previously grouped together. The entry indicates that if those shapes are regrouped, the new group formed should not have a regroupid value as it was not previously ungrouped.

If the two rectangles are ungrouped, the document reflects that the rectangles were previously grouped and that their old group was previously grouped:

```
<v:oval ... o:regroupid="1"/>
<v:rect ... o:regroupid="2"/>
<v:rect ... o:regroupid="2"/>

<o:regrouptable v:ext="edit">
  <o:entry new="1" old="0"/>
  <o:entry new="2" old="1"/>
</o:regrouptable>
```

*end example*]

| Parent Elements          |
|--------------------------|
| shapelayout (§19.2.2.29) |

| Child Elements        | Subclause |
|-----------------------|-----------|
| entry (Regroup Entry) | §19.2.2.9 |

| Attributes                                  | Description                                                                                                                                                                                                                                                                                                |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ext (VML Extension Handling Behavior)       | Specifies an optional value that indicates how applications that implement VML should interpret extensions not defined as part of the original specification of core VML.                                                                                                                                  |
| Namespace:<br>urn:schemas-microsoft-com:VML | [ <i>Rationale</i> : This part of the original VML specification is included to assist applications that leverage existing VML support in implementing the Office Open XML Format. <i>end rationale</i> ]<br><br>The possible values for this attribute are defined by the ST_Ext simple type (§19.1.3.2). |

[*Note*: The W3C XML Schema definition of this element's content model ([CT\\_RegroupTable](#)) is located in §A.6.2. *end note*]

#### 19.2.2.24 rel (Diagram Relationship)

This element specifies a relationship between two diagram nodes. An optional third node that exists between the primary two can also be included. The relationship has an implicit order since it describes the source and destination nodes.

[*Example*: In the cycle diagram below, shape 1036 (the shape that is the text box for the text "2") is the first node. A relationship exists between shape 1036 and shape 1044 (the text box containing "1"). In between those shapes is shape 1038 (the yellow arrow).

```
<o:relationtable v:ext="edit">
  <o:rel v:ext="edit" idsrc="#_s1036" iddest="#_s1036"/>
  <o:rel v:ext="edit" idsrc="#_s1042" iddest="#_s1036" idcntr="#_s1043"/>
  <o:rel v:ext="edit" idsrc="#_s1044" iddest="#_s1042" idcntr="#_s1045"/>
  <o:rel v:ext="edit" idsrc="#_s1036" iddest="#_s1044" idcntr="#_s1038"/>
</o:relationtable>

<v:rect id="_s1036" ... >
  <v:textbox ... ><...>2</...></v:textbox>
</v:rect>
```

```
<v:rect id="_s1044" ... >
  <v:textbox ... ><...>1</...></v:textbox>
</v:rect>
```

```
<v:shape id="_s1038" ... />
```



end example]

| Parent Elements            |
|----------------------------|
| relationtable (§19.2.2.25) |

| Attributes                                                                               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ext (VML Extension Handling Behavior)<br><br>Namespace:<br>urn:schemas-microsoft-com:VML | Specifies an optional value that indicates how applications that implement VML should interpret extensions not defined as part of the original specification of core VML.<br><br><i>[Rationale: This part of the original VML specification is included to assist applications that leverage existing VML support in implementing the Office Open XML Format. end rationale]</i><br><br>The possible values for this attribute are defined by the ST_Ext simple type (§19.1.3.2). |
| idcntr (Diagram Relationship Center Shape)                                               | Specifies the optional identifier of the shape that exists between the source and destination shapes. This is omitted if the relationship does not have a shape between the source and destination shapes.<br><br><i>[Example:</i><br><pre>&lt;o:rel ... idcntr="#s_1038"&gt; &lt;/o:rel&gt;</pre> <i>end example]</i><br><br>The possible values for this attribute are defined by the W3C XML Schema string datatype.                                                           |
| iddest (Diagram Relationship Destination Shape)                                          | Specifies the identifier of the shape at the destination of the relationship.<br><br><i>[Example:</i><br><pre>&lt;o:rel ... iddest="#s_1044"&gt; &lt;/o:rel&gt;</pre>                                                                                                                                                                                                                                                                                                             |

| Attributes                                | Description                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                           | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                          |
| idsrc (Diagram Relationship Source Shape) | <p>Specifies the identifier of the shape at the source of the relationship.</p> <p>[Example:</p> <pre data-bbox="451 583 857 646">&lt;o:rel ... idsrc="#s_1036"&gt; &lt;/o:rel&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |

[Note: The W3C XML Schema definition of this element's content model ([CT\\_Relation](#)) is located in §A.6.2. *end note]*

#### 19.2.2.25 relationtable (Diagram Relationship Table)

This element specifies a list that describes the relationships among diagram nodes.

[Example: The following table describes the parent-child relationships for shapes in an organization chart. The first entry describes the top-level shape in the diagram. The next two rows describe that the shapes are subordinates to the first shape. Shape 1029 is a subordinate of shape 1028. Shape 1032, a connector in this case, is in between the two.

```
<o:relationtable v:ext="edit">
  <o:rel v:ext="edit" idsrc="#_s1028" iddest="#_s1028"/>
  <o:rel v:ext="edit" idsrc="#_s1029" iddest="#_s1028" idcntr="#_s1032"/>
  <o:rel v:ext="edit" idsrc="#_s1030" iddest="#_s1028" idcntr="#_s1033"/>
</o:relationtable>
```

*end example]*

| Parent Elements     |
|---------------------|
| diagram (§19.2.2.8) |

| Child Elements             | Subclause  |
|----------------------------|------------|
| rel (Diagram Relationship) | §19.2.2.24 |

| Attributes                                  | Description                                                                                                                                                                                                                                                                                                |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ext (VML Extension Handling Behavior)       | Specifies an optional value that indicates how applications that implement VML should interpret extensions not defined as part of the original specification of core VML.                                                                                                                                  |
| Namespace:<br>urn:schemas-microsoft-com:vml | [ <i>Rationale</i> : This part of the original VML specification is included to assist applications that leverage existing VML support in implementing the Office Open XML Format. <i>end rationale</i> ]<br><br>The possible values for this attribute are defined by the ST_Ext simple type (§19.1.3.2). |

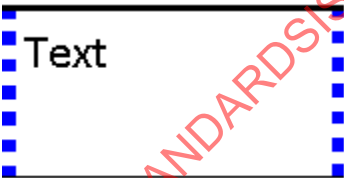
[*Note*: The W3C XML Schema definition of this element’s content model (CT\_RelationTable) is located in §A.6.2. *end note*]

### 19.2.2.26 right (Text Box Right Stroke)

This element specifies the stroke properties for the right border of a text box. It entirely supercedes its parent stroke element if its on attribute is true. Thus the default value of an unspecified attribute overrides a value specified in the parent. If the on attribute is false or not specified, the border is not shown.

[*Example*: The text box borders are set independently. The bottom border does not inherit the weight from the parent stroke element.

```
<v:stroke weight="2.25pt">
  <o:left v:ext="view" dashstyle="1 1" color="blue" weight="5pt" on="t"/>
  <o:top v:ext="view" color="black" weight="2.25pt" on="t"/>
  <o:right v:ext="view" dashstyle="1 1" color="blue" weight="5pt" on="t"/>
  <o:bottom v:ext="view" color="black" on="t"/>
  <o:column v:ext="view" color="#f60" on="t"/>
</v:stroke>
```

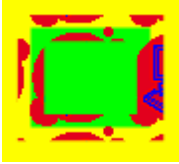


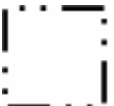
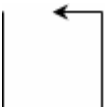
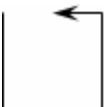
*end example*]

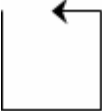
| Parent Elements                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| background (Part 1, §17.2.1); hdrShapeDefaults (§14.7.2.1); object (Part 1, §17.3.3.19); pict (§14.2.2.2); pict (§14.5.1); shapeDefaults (§14.7.2.2); stroke (§19.1.2.21) |



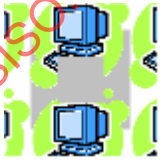
| Attributes                                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>althref</b> (Alternate Image Reference)     | <p>Specifies an alternate reference for an image in Macintosh PICT format.</p> <p>[Example:</p> <pre>&lt;v:stroke ... althref="myimage.pcz" ... &gt; &lt;/v:stroke&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>color</b> (Stroke Color)                    | <p>Specifies the stroke color. Overrides the strokecolor attribute of a shape. Default is black. See the fillcolor attribute for a list of supported named colors.</p> <p>[Example: The shape stroke is blue:</p> <pre>&lt;v:shape ... strokecolor="red" ... &gt;   &lt;v:stroke color="blue"/&gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>color2</b> (Stroke Alternate Pattern Color) | <p>Specifies a second color for strokes, used when filltype is pattern. Default is no value.</p> <p>When a pattern fill is used for the stroke, the stroke color is used in colored parts of the source image. The color2 defines an alternate color to use in place of black in the source image.</p> <p>[Example: This unusual example is intended to demonstrate how the image and colors interact to create a patterned stroke. The yellow background shows transparency. The non-square shape and square image create an effective offset. The heavy stroke weight shows more of the image. The green shape fill shows how the stroke is overlaid on the shape.</p> <pre>&lt;v:background fillcolor="yellow"/&gt; &lt;v:shape style="width:60;height:50"   strokecolor="red" fillcolor="lime"   path="m 0,0 l 0,1000 1000,1000 1000,0 x e"&gt;   &lt;v:stroke filltype="pattern" weight="10pt"     src="myimage.gif" color2="blue"/&gt; &lt;/v:shape&gt;</pre> |

| Attributes                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                 |   <p>, where myimage.gif is:</p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| dashstyle (Stroke Dash Pattern) | <p>Specifies the dot and dash pattern for a stroke. Default is solid. Pre-defined values are:</p> <ul style="list-style-type: none"> <li>• solid</li> <li>• shortdash</li> <li>• shortdot</li> <li>• shortdashdot</li> <li>• shortdashdotdot</li> <li>• dot</li> <li>• dash</li> <li>• longdash</li> <li>• dashdot</li> <li>• longdashdot</li> <li>• longdashdotdot</li> </ul> <p>A custom-defined dash pattern can also be specified using a series of numbers. These define the length of the dash (the drawn part of the stroke) and the length of the space between the dashes. The lengths are relative to the line width: a length of 1 is equal to the line width. The endcap style is applied to each dash but the arrow style is not. The string defines the length of the dash then the length of the space. This can be repeated to form complex dash styles. The string should always contain a pair of numbers; if it contains an odd number of numbers the last is disregarded. 0 implies a dot that is fourfold symmetrical (with round end caps, this is a circle).</p> <p><i>[Example:</i></p> <pre>&lt;v:stroke dashstyle="0 2" weight="3pt"   endcap="round"&gt; &lt;/v:stroke&gt;</pre>  <pre>&lt;v:stroke dashstyle="longdashdotdot"   weight="2pt"&gt; &lt;/v:stroke&gt;</pre> |

| Attributes                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                            |  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                     |
| endarrow (Line End Arrowhead)              | <p>Specifies an arrowhead for the end of a line. Default is none. The path shall not be closed with the x command for the arrowhead to show. Allowed values are:</p> <ul style="list-style-type: none"> <li>• none</li> <li>• block</li> <li>• classic</li> <li>• diamond</li> <li>• oval</li> <li>• open</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke endarrow="classic"/&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_StrokeArrowType simple type (§19.1.3.8).</p> |
| endarrowlength (Line End Arrowhead Length) | <p>Specifies the length of the arrowhead at the end of a line. Default is medium. Allowed values are:</p> <ul style="list-style-type: none"> <li>• short</li> <li>• medium</li> <li>• long</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke ... endarrowlength="long" ... /&gt;</pre>  <p><i>end example]</i></p>                                                                                                                                                                                                                 |

| Attributes                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                     | <p>The possible values for this attribute are defined by the ST_StrokeArrowLength simple type (§19.1.3.7).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <p>endarrowwidth<br/>(Line End Arrowhead Width)</p> | <p>Specifies the width of the arrowhead at the end of a line. Default is <code>medium</code>. Allowed values are:</p> <ul style="list-style-type: none"> <li>• <code>narrow</code></li> <li>• <code>medium</code></li> <li>• <code>wide</code></li> </ul> <p>[Example:</p> <pre>&lt;v:stroke ... endarrowwidth="wide" ... /&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_StrokeArrowWidth simple type (§19.1.3.9).</p> |
| <p>endcap (Line End Cap)</p>                        | <p>Specifies the cap style for the end of a stroke. Default is <code>flat</code>. Allowed values are:</p> <ul style="list-style-type: none"> <li>• <code>flat</code></li> <li>• <code>square</code></li> <li>• <code>round</code></li> </ul> <p>[Example:</p> <pre>&lt;v:stroke ... endcap="round" weight="10pt" ... /&gt;</pre>  <p>endcap="flat"</p> <p>endcap="square"</p> <p>endcap="round"</p> <p><i>end example]</i></p>                                                |

| Attributes                                                                                       | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                  | <p>The possible values for this attribute are defined by the ST_StrokeEndCap simple type (§19.1.3.10).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <p>ext (VML Extension Handling Behavior)</p> <p>Namespace:<br/>urn:schemas-microsoft-com:vm1</p> | <p>Specifies an optional value that indicates how applications that implement VML should interpret extensions not defined as part of the original specification of core VML.</p> <p>[<i>Rationale</i>: This part of the original VML specification is included to assist applications that leverage existing VML support in implementing the Office Open XML Format. <i>end rationale</i>]</p> <p>The possible values for this attribute are defined by the ST_Ext simple type (§19.1.3.2).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <p>filltype (Stroke Image Style)</p>                                                             | <p>Specifies the kind of fill used for the background of a stroke. Default is solid. Allowed values are:</p> <ul style="list-style-type: none"> <li>• <b>solid</b> - The fill pattern is solid.</li> <li>• <b>tile</b> - The fill image is tiled.</li> <li>• <b>pattern</b> - The fill image is stretched to form a pattern.</li> <li>• <b>frame</b> - The fill image becomes a border for the shape.</li> </ul> <p>[<i>Example</i>:</p> <pre>&lt;v:shape style="width:50; height:50"   strokecolor="red"   path="m 0,0 l 0,1000 1000,1000 1000,0 x e"&gt;   &lt;v:stroke filltype="frame" weight="10pt"     src="border.gif"/&gt; &lt;/v:shape&gt;</pre> <div style="display: flex; align-items: center; justify-content: center;">  <span style="margin: 0 10px;">, where border.gif is:</span>  </div> <p><i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_FillType simple type (§19.1.3.4).</p> |
| <p>forcedash (Force Dashed Outline)</p>                                                          | <p>Specifies whether a dashed outline is used to draw a shape when a shape has no line or fill. Default is false.</p> <p>Used by PresentationML placeholders to draw a dashed outline when there is no line and no fill for a shape.</p> <p>[<i>Example</i>:</p> <pre>&lt;v:shape ... o:forcedash="true" ... &gt;</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| Attributes                                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                | <p><code>&lt;/v:shape&gt;</code></p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <p>href (Original Image Reference)</p>         | <p>Specifies the URL to the original image file. Used only if the picture has been linked and embedded. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:fill ... o:href="myimage.gif" ... &gt; &lt;/v:fill&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <p>imagealignshape (Stoke Image Alignment)</p> | <p>Specifies the alignment of the stroke image. If true, the image is aligned with the shape. Otherwise, it is aligned with the containing scope. Default is true.</p> <p>[Example: The top position offset shifts the image alignment relative to the containing window:</p> <pre>&lt;v:shape fillcolor="silver"   style="top:20;width:50;height:50"   path="m 0,0 l 0,1000 1000,1000 1000,0 x e"&gt;   &lt;v:stroke imagealignshape="false" weight="20pt"     filltype="tile" src="myimage.gif"/&gt; &lt;/v:shape&gt;</pre> <div data-bbox="451 1360 609 1518">  </div> <p><code>imagealignshape="false"</code></p> <div data-bbox="451 1560 609 1717">  </div> <p><code>imagealignshape="false"</code></p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |

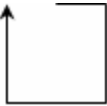
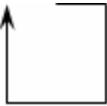
| Attributes                                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |             |        |                       |         |                                        |        |                                    |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|--------|-----------------------|---------|----------------------------------------|--------|------------------------------------|
| <b>imageaspect</b><br>(Stroke Image Aspect Ratio) | <p>Specifies how the stroke image aspect ratio is preserved. Default is ignore. Allowed values are:</p> <table data-bbox="418 352 1320 548"> <tr> <th>Value</th><th>Description</th></tr> <tr> <td>ignore</td><td>Ignore aspect issues.</td></tr> <tr> <td>atleast</td><td>Image is at least as big as imagesize.</td></tr> <tr> <td>atmost</td><td>Image is no bigger than imagesize.</td></tr> </table> <p>[Example:</p> <pre data-bbox="456 657 1110 789">&lt;v:stroke filltype="frame" weight="10pt"   src="border.gif" imagealignshape="true"   imageaspect="atleast"&gt; &lt;/v:stroke&gt;</pre> <div data-bbox="451 825 602 1171">  </div> <p>imagealignshape="ignore"<br/>           imagealignshape="atleast"<br/>           imagealignshape="atmost"</p> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_ImageAspect simple type (§19.1.3.5).</p> | Value | Description | ignore | Ignore aspect issues. | atleast | Image is at least as big as imagesize. | atmost | Image is no bigger than imagesize. |
| Value                                             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |             |        |                       |         |                                        |        |                                    |
| ignore                                            | Ignore aspect issues.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |             |        |                       |         |                                        |        |                                    |
| atleast                                           | Image is at least as big as imagesize.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |             |        |                       |         |                                        |        |                                    |
| atmost                                            | Image is no bigger than imagesize.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |             |        |                       |         |                                        |        |                                    |
| <b>imagesize</b> (Stroke Image Size)              | <p>Specifies the size of the image for the stroke. Default is the size of the image.</p> <p>[Example:</p> <pre data-bbox="456 1514 1065 1545">&lt;v:stroke ... imagesize="10pt,10pt" ... /&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |             |        |                       |         |                                        |        |                                    |
| <b>insetpen</b> (Inset Border From Path)          | <p>Specifies that the border shall be displayed inside of the path defining the shape, rather than along the path (the default border placement), or outside of the path as might be done with an image.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |             |        |                       |         |                                        |        |                                    |

| Attributes                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                         | <p>[Example:</p> <pre>&lt;v:shape ... insetpen="true" ... &gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p>joinstyle (Line End Join Style))</p> | <p>Specifies the join style for line ends. Default is round.</p> <ul style="list-style-type: none"> <li>• round</li> <li>• bevel</li> <li>• miter</li> </ul> <p>[Example:</p> <pre>&lt;v:polyline strokeweight="10pt" strokecolor="navy" points="10pt,10pt,50pt,50pt,90pt,10pt"&gt; &lt;v:stroke joinstyle="bevel"/&gt; &lt;/v:polyline&gt;</pre> <div style="display: flex; align-items: center; margin-top: 10px;">  <div style="margin-left: 20px;"> <p>joinstyle="round"</p> <p>joinstyle="bevel"</p> <p>joinstyle="miter"</p> </div> </div> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_StrokeJoinStyle simple type (§19.1.3.11).</p> |
| <p>linestyle (Stroke Line Style)</p>    | <p>Specifies the line style of the stroke. Default is single.</p> <ul style="list-style-type: none"> <li>• single</li> <li>• thinThin</li> <li>• thinThick</li> <li>• thickThin</li> <li>• thickBetweenThin</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |



| Attributes                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                       | <p>[Example:</p> <pre>&lt;v:stroke linestyle="thickThin" weight="5pt"&gt; &lt;/v:stroke&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_StrokeLineStyle simple type (§19.1.3.12).</p>                                                                                                                                                                                                           |
| <p>miterlimit (Miter Joint Limit)</p> | <p>Specifies the smoothness of the miter joint, or the maximum distance between the inner point and outer point of a joint. This number is a multiple of the thickness of the line. Default is 8.</p> <p>[Example:</p> <pre>&lt;v:stroke joinstyle="miter" weight="10pt"   miterlimit="2"&gt; &lt;/v:stroke&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema decimal datatype.</p> |
| <p>on (Stroke Toggle)</p>             | <p>Specifies whether the stroke is displayed. Default is true. This attribute overrides the shape's stroke attribute.</p> <p>[Example:</p> <pre>&lt;v:rect style="width:50;height:50" stroked="true"   fillcolor="lime" strokecolor="red"&gt;   &lt;v:stroke on="false" weight="5pt"/&gt; &lt;/v:rect&gt;</pre>  <p>end example]</p>                                                                                                         |

| Attributes                               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                          | <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                    |
| <p>opacity (Stroke Opacity)</p>          | <p>Specifies the amount of transparency of a stroke. Default is 1.0.</p> <p>[Example:</p> <pre>&lt;v:rect style="width:50;height:50"   fillcolor="lime" strokecolor="red"&gt;   &lt;v:stroke weight="5pt" opacity="50%"/&gt; &lt;/v:rect&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| <p>src (Stroke Image Location)</p>       | <p>Specifies the source image to load for a stroke fill. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:stroke ... src="myimage.gif" ... &gt; &lt;/v:stroke&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                          |
| <p>startarrow (Line Start Arrowhead)</p> | <p>Specifies an arrowhead for the start of a line. Default is none. The path shall not be closed with the x command for the arrowhead to show. Allowed values are:</p> <ul style="list-style-type: none"> <li>• none</li> <li>• block</li> <li>• classic</li> <li>• diamond</li> <li>• oval</li> <li>• open</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke startarrow="classic"/&gt;</pre>                                                                 |

| Attributes                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                             |  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_StrokeArrowType simple type (§19.1.3.8).</p>                                                                                                                                                                                                                                                                                                                       |
| <b>startarrowlength</b><br>(Line Start<br>Arrowhead Length) | <p>Specifies the length of the arrowhead at the start of a line. Default is <i>medium</i>. Allowed values are:</p> <ul style="list-style-type: none"> <li>• <i>short</i></li> <li>• <i>medium</i></li> <li>• <i>long</i></li> </ul> <p>[Example:</p> <pre>&lt;v:stroke ... startarrowlength="long" ... /&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_StrokeArrowLength simple type (§19.1.3.7).</p> |
| <b>startarrowwidth</b><br>(Line Start<br>Arrowhead Width)   | <p>Specifies the width of the arrowhead at the start of a line. Default is <i>medium</i>. Allowed values are:</p> <ul style="list-style-type: none"> <li>• <i>narrow</i></li> <li>• <i>medium</i></li> <li>• <i>wide</i></li> </ul> <p>[Example:</p> <pre>&lt;v:stroke ... startarrowwidth="wide" ... /&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_StrokeArrowWidth simple type (§19.1.3.9).</p>  |

| Attributes             | Description                                                                                                                                                                                                                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| title (Stroke Title)   | <p>Specifies the title of an embedded stroke image. This is typically set to the comment property of the image, which is often blank.</p> <p>[Example:</p> <pre>&lt;v:fill ... o:title="alt text" ... &gt; &lt;/v:fill&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| weight (Stroke Weight) | <p>Specifies the thickness of a stroke. Default is 1. This attribute overrides the shape's strokeweight attribute.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                               |

[Note: The W3C XML Schema definition of this element's content model ([CT StrokeChild](#)) is located in §A.6.2.  
end note]

#### 19.2.2.27 rules (Rule Set)

This element specifies a list of rule entries which describe how a certain shape or sets of shapes should behave during editing.

[Example: The following rule defines a connection between two shapes. The shape with id \_s1036 connects shape \_s1033 to \_s1032:

```
<o:shapelayout v:ext="edit">
  <o:rules v:ext="edit">
    <o:r id="V:Rule1" type="connector" idref="#_s1036">
      <o:proxy start="" idref="#_s1033" connectloc="0"/>
      <o:proxy end="" idref="#_s1032" connectloc="2"/>
    </o:r>
  </o:rules>
</o:shapelayout>
```

end example]

| Parent Elements          |
|--------------------------|
| shapelayout (§19.2.2.29) |

| Child Elements | Subclause  |
|----------------|------------|
| r (Rule)       | §19.2.2.22 |

| Attributes                                 | Description                                                                                                                                                                                                                                                                                                |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ext (VML Extension Handling Behavior)      | Specifies an optional value that indicates how applications that implement VML should interpret extensions not defined as part of the original specification of core VML.                                                                                                                                  |
| Namespace:<br>urn:schemas-microsoft-com:vm | [ <i>Rationale</i> : This part of the original VML specification is included to assist applications that leverage existing VML support in implementing the Office Open XML Format. <i>end rationale</i> ]<br><br>The possible values for this attribute are defined by the ST_Ext simple type (§19.1.3.2). |

[*Note*: The W3C XML Schema definition of this element's content model ([CT\\_Rules](#)) is located in §A.6.2. *end note*]

#### 19.2.2.28 **shapedefaults** (New Shape Defaults)

This element specifies the defaults that are used when creating new shapes. These defaults are stored once per document.

[*Example*: Consider a case in which an application chooses to store the highest shape ID it has used in the document thus far. This could be used to support the generation of new shape IDs:

```
<o:shapedefaults v:ext="edit" spidmax="1029"/>
```

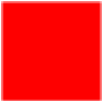
*end example*]

| Parent Elements                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------|
| background (Part 1, §17.2.1); hdrShapeDefaults (§14.7.2.1); object (Part 1, §17.3.3.19); pict (§14.2.2.2); pict (§14.5.1); shapeDefaults (§14.7.2.2) |

| Child Elements                       | Subclause  |
|--------------------------------------|------------|
| callout (Callout)                    | §19.2.2.2  |
| colormenu (UI Default Colors)        | §19.2.2.4  |
| colormru (Most Recently Used Colors) | §19.2.2.5  |
| extrusion (3D Extrusion)             | §19.2.2.11 |
| fill (Shape Fill Properties)         | §19.1.2.5  |
| lock (Shape Protections)             | §19.2.2.18 |
| shadow (Shadow Effect)               | §19.1.2.18 |

| Child Elements                | Subclause  |
|-------------------------------|------------|
| skew (Skew Transform)         | §19.2.2.31 |
| stroke (Line Stroke Settings) | §19.1.2.21 |
| textbox (Text Box)            | §19.1.2.22 |

| Attributes                                                                               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| allowincell (Allow in Table Cell)                                                        | <p>Specifies whether the shape is allowed to be placed in a table cell. Default is false.</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                            |
| ext (VML Extension Handling Behavior)<br><br>Namespace:<br>urn:schemas-microsoft-com:vml | <p>Specifies an optional value that indicates how applications that implement VML should interpret extensions not defined as part of the original specification of core VML.</p> <p>[<i>Rationale:</i> This part of the original VML specification is included to assist applications that leverage existing VML support in implementing the Office Open XML Format. <i>end rationale</i>]</p> <p>The possible values for this attribute are defined by the ST_Ext simple type (§19.1.3.2).</p> |
| fill (Shape Fill Toggle)                                                                 | <p>Specifies whether the closed path is filled. Default is true. This attribute is overridden by the fill on attribute.</p> <p>[<i>Example:</i></p> <pre>&lt;v:shape ... fill="f" fillcolor="red" ...&gt; &lt;/v:shape&gt;</pre>  <p><i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                          |
| fillcolor (Default Fill Color)                                                           | <p>Specifies the default shape fill color. Default is no value. Colors are typically specified as either a named color, such as red, or six hexadecimal digits representing the red, green and blue values of the color, such as #00FF30. Full details are specified in the simple type description.</p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p>                                                                                 |
| spidmax (Shape ID Optional Storage)                                                      | <p>Specifies an optional value that allows applications a mechanism for storing information they need to persist related to shape IDs. Default is 0.</p>                                                                                                                                                                                                                                                                                                                                        |

| Attributes                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                         | <p>The possible values for this attribute are defined by the W3C XML Schema integer datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p>stroke (Shape Stroke Toggle)</p>     | <p>Specifies whether the path defining the shape is stroked with a solid line. The stroke element (§19.1.2.21) defines other strokes. The on attribute of the stroke element overrides this attribute. Default is true.</p> <p>[Example:</p> <pre>&lt;v:shape ... fillcolor="red"   stroke="false" strokecolor="blue"...&gt; &lt;/v:shape&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                            |
| <p>strokecolor (Shape Stroke Color)</p> | <p>Specifies the primary color of the brush to use to stroke the path of the shape. Default is black. The color attribute of the stroke element (§19.1.2.21) overrides this. Colors are typically specified as either a named color, such as red, or six hexadecimal digits representing the red, green and blue values of the color, such as #00FF30. Full details are specified in the simple type description.</p> <p>[Example:</p> <pre>&lt;v:shape ... strokecolor="red" ...&gt; &lt;/v:shape&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p> |
| <p>style (Shape Styling Properties)</p> | <p>Specifies the CSS2 styling properties of the shape. The CSS2 (Cascading Style Sheets, Level 2) specification, a Recommendation of the World Wide Web Consortium, is available here: <a href="http://www.w3.org/TR/REC-CSS2">http://www.w3.org/TR/REC-CSS2</a>.</p> <p>This attribute uses a semi-colon delimited list of “name:value” pairs, the syntax defined</p>                                                                                                                                                                                                                                                                                                                                                      |

| Attributes    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                                                                                                                                                                                    |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | <p>by section 4.1.8 of the CSS2 specification for grouped declarations (without the surrounding braces). The following tables define the allowed properties and the VML treatment of each.</p> <p>[Example:<br/> <code>&lt;v:shape ... style='position:absolute;width:100pt;height:50pt' ...</code><br/> <code>&gt;</code><br/> <code>&lt;/v:shape&gt;</code><br/> end example]</p> <table> <tr> <th data-bbox="415 562 662 611">Property</th><th data-bbox="662 562 1492 611">Description</th></tr> <tr> <td data-bbox="415 611 662 877">flip</td><td data-bbox="662 611 1492 877"> <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul> </td></tr> <tr> <td data-bbox="415 877 662 1287">height</td><td data-bbox="662 877 1492 1287"> <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> </td></tr> <tr> <td data-bbox="415 1287 662 1766">left</td><td data-bbox="662 1287 1492 1766"> <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul> </td></tr> <tr> <td data-bbox="415 1766 662 1879">margin-bottom</td><td data-bbox="662 1766 1492 1879"> <p>Specifies the position of the bottom of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of</p> </td></tr> </table> | Property | Description | flip | <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul> | height | <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> | left | <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul> | margin-bottom | <p>Specifies the position of the bottom of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of</p> |
| Property      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                                                                                                                                                                                    |
| flip          | <p>Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are:</p> <ul style="list-style-type: none"> <li>• x - Flip along the y-axis, reversing the x-coordinates.</li> <li>• y - Flip along the x-axis, reversing the y-coordinates.</li> <li>• xy - Flip along both the y- and x-axis.</li> <li>• yx - Flip along both the x- and y-axis.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                                                                                                                                                                                    |
| height        | <p>Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                                                                                                                                                                                    |
| left          | <p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                                                                                                                                                                                    |
| margin-bottom | <p>Specifies the position of the bottom of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |             |      |                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                                                                                                                                                                                    |



| Attributes | Description  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |              | <p>the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul>                                                                                                                                                                                                            |
|            | margin-left  | <p>Specifies the position of the left of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul>   |
|            | margin-right | <p>Specifies the position of the right of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt; - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul> |
|            | margin-top   | <p>Specifies the position of the top of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the</li> </ul>                           |

| Attributes | Description                      |                                                                                                                                                                                                                                                                                                   |
|------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                                  | parent object's height.                                                                                                                                                                                                                                                                           |
|            | mso-position-horizontal          | <p>Specifies the horizontal positioning data for objects in WordprocessingML documents. Default is absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• absolute</li> <li>• left</li> <li>• center</li> <li>• right</li> <li>• inside</li> <li>• outside</li> </ul>         |
|            | mso-position-horizontal-relative | <p>Specifies relative horizontal position data for objects in WordprocessingML documents. This modifies the mso-position-horizontal property. Default is text. Allowed values are:</p> <ul style="list-style-type: none"> <li>• margin</li> <li>• page</li> <li>• text</li> <li>• char</li> </ul> |
|            | mso-position-vertical            | <p>Specifies the vertical positioning data for objects in WordprocessingML documents. Default is absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• absolute</li> <li>• top</li> <li>• center</li> <li>• bottom</li> <li>• inside</li> <li>• outside</li> </ul>           |
|            | mso-position-vertical-relative   | <p>Specifies relative vertical position data for objects in WordprocessingML documents. This modifies the mso-position-vertical property. Default is text. Allowed values are:</p> <ul style="list-style-type: none"> <li>• margin</li> <li>• page</li> <li>• text</li> <li>• line</li> </ul>     |
|            | mso-wrap-distance-bottom         | <p>Specifies the distance from the bottom of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>               |

| Attributes | Description             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | mso-wrap-distance-left  | Specifies the distance from the left side of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|            | mso-wrap-distance-right | Specifies the distance from the right side of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|            | mso-wrap-distance-top   | Specifies the distance from the top of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|            | mso-wrap-edited         | Specifies whether the wrap coordinates were customized by the user. If the wrap coordinates are generated by an editor, this property is true; otherwise they were customized by a user. Default is false.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|            | mso-wrap-style          | <p>Specifies the wrapping mode for text in shapes in WordprocessingML documents. Default is square. Allowed values are:</p> <ul style="list-style-type: none"> <li>• square - Wraps text inside the shape in a square.</li> <li>• none - Text does not wrap.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|            | position                | <p>Specifies the kind of positioning used to place an element. Default is static. When the element is contained inside a group, this property shall be absolute. Allowed values are:</p> <ul style="list-style-type: none"> <li>• static - The element is positioned according to the normal flow of the page. The top and left properties are ignored. If the object is anchored inline, this value is used.</li> <li>• absolute - The element is positioned relative to the parent, using the top and left properties.</li> <li>• relative - The element is positioned according to the normal flow of the page, but the top and left properties are used. The overlap of overlapping elements is governed by the z-index property.</li> </ul> |
|            | rotation                | Specifies the angle that a shape is rotated, in degrees. Default is 0. Positive angles are clockwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|            | top                     | Specifies the position of the top of the containing block of the shape relative to the element above it in the flow of the page.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| Attributes | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <p>Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's height.</li> </ul> <p><b>visibility</b></p> <p>Specifies whether a shape is displayed. Only inherit and hidden are used; any other values are mapped to inherit. Default is inherit. Allowed values are:</p> <ul style="list-style-type: none"> <li>• hidden - The shape is not visible, but is still part of the flow of the objects in the browser. Mouse events are not processed.</li> <li>• inherit - The visibility state is inherited from the parent of the shape.</li> </ul> <p><b>width</b></p> <p>Specifies the width of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Default position of an element in the flow of the page.</li> <li>• &lt;units&gt;- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.</li> <li>• &lt;percentage&gt;- Value expressed as a percentage of the parent object's width.</li> </ul> <p><b>z-index</b></p> <p>Specifies the display order of overlapping shapes. Default is 0. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> <li>• auto - Uses the order that the shapes appear in the page, bottom to top.</li> <li>• &lt;order&gt;- A number that represents the stacking precedence. Shapes with higher numbers are placed on top of those with lower numbers. Negative numbers are allowed.</li> </ul> |
|            | <p>The following properties are only used by the textbox element (§19.1.2.22):</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

| Attributes | Description           |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | Property              | Description                                                                                                                                                                                                                                                                                                                                                                                                             |
|            | direction             | <p>Specifies the direction of the text in the textbox. Default is ltr. This property is superceded by the mso-direction-alt property if that is specified. Allowed values are:</p> <ul style="list-style-type: none"> <li>• ltr - Text is displayed left-to-right.</li> <li>• rtl - Text is displayed right-to-left.</li> </ul>                                                                                         |
|            | layout-flow           | <p>Determines the flow of the text layout in a textbox. Default is horizontal. Allowed values are:</p> <ul style="list-style-type: none"> <li>• horizontal - Text is displayed horizontally.</li> <li>• vertical - Text is displayed vertically.</li> <li>• vertical-ideographic - Ideographic text is displayed vertically.</li> <li>• horizontal-ideographic - Ideographic text is displayed horizontally.</li> </ul> |
|            | mso-direction-alt     | <p>Specifies an alternate direction for text in textboxes. Overrides the direction property. The only allowed value is context.</p>                                                                                                                                                                                                                                                                                     |
|            | mso-fit-shape-to-text | <p>Specifies whether the shape stretches to fit the text in the textbox. Default is false.</p>                                                                                                                                                                                                                                                                                                                          |
|            | mso-fit-text-to-shape | <p>Specifies whether the text stretches to fit the textbox. Default is false.</p>                                                                                                                                                                                                                                                                                                                                       |
|            | mso-layout-flow-alt   | <p>Specifies the alternate layout flow for text in textboxes. This property is used instead of layout-flow when the layout flow is from bottom to top for non-ideographic languages. Its only value is bottom-to-top.</p>                                                                                                                                                                                               |
|            | mso-next-textbox      | <p>Specifies the ID of the next textbox in a series. Used to keep track of a set of linked textboxes. Default is no value.</p>                                                                                                                                                                                                                                                                                          |
|            | mso-rotate            | <p>Specifies a specific rotation value for text in a textbox. Default is 0. Allowed values are:</p> <ul style="list-style-type: none"> <li>• 0</li> <li>• 90</li> <li>• 180</li> <li>• -90</li> </ul>                                                                                                                                                                                                                   |
|            | mso-text-scale        | <p>Specifies the scaling factor for fitting text to shapes. Default is 0. This property is only used if mso-fit-text-to-shape is true.</p>                                                                                                                                                                                                                                                                              |
|            | v-text-anchor         | <p>Specifies the vertical anchoring of text in a textbox. Default is top. The alignment of a text anchor only becomes evident if mso-fit-text-to-shape is false. This property is different from the</p>                                                                                                                                                                                                                |

| Attributes   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |              |                                                                                                                                                                                                                                          |             |                                                                                                                                                              |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              | <p>vertical-align CSS property, which is used for ideographic languages. Allowed values are:</p> <ul style="list-style-type: none"> <li>• top</li> <li>• middle</li> <li>• bottom</li> <li>• top-center</li> <li>• middle-center</li> <li>• bottom-center</li> <li>• top-baseline</li> <li>• bottom-baseline</li> <li>• top-center-baseline</li> <li>• bottom-center-baseline</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |              |                                                                                                                                                                                                                                          |             |                                                                                                                                                              |
|              | <p>The following properties are only used by the textpath element (§19.1.2.23):</p> <table> <tr> <th data-bbox="415 808 662 854">Property</th><th data-bbox="669 808 1471 854">Description</th></tr> <tr> <td data-bbox="415 863 662 1010">font</td><td data-bbox="669 863 1471 1010">Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family.</td></tr> <tr> <td data-bbox="415 1018 662 1094">font-family</td><td data-bbox="669 1018 1471 1094">Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property.</td></tr> <tr> <td data-bbox="415 1102 662 1211">font-size</td><td data-bbox="669 1102 1471 1211">Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property.</td></tr> <tr> <td data-bbox="415 1220 662 1472">font-style</td><td data-bbox="669 1220 1471 1472"> <p>Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• normal</li> <li>• italic</li> <li>• oblique - Treated the same as italic.</li> </ul> </td></tr> <tr> <td data-bbox="415 1480 662 1698">font-variant</td><td data-bbox="669 1480 1471 1698"> <p>Specifies the variant style of a font. Default is normal. The values are the same as those of the CSS font-variant property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• normal</li> <li>• small-caps</li> </ul> </td></tr> <tr> <td data-bbox="415 1707 662 1833">font-weight</td><td data-bbox="669 1707 1471 1833">Specifies the thickness of the letters of the font. Default is normal. The values are the same as those of the CSS font-weight property. Allowed values are:</td></tr> </table> | Property | Description | font | Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family. | font-family | Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property. | font-size | Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property. | font-style | <p>Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• normal</li> <li>• italic</li> <li>• oblique - Treated the same as italic.</li> </ul> | font-variant | <p>Specifies the variant style of a font. Default is normal. The values are the same as those of the CSS font-variant property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• normal</li> <li>• small-caps</li> </ul> | font-weight | Specifies the thickness of the letters of the font. Default is normal. The values are the same as those of the CSS font-weight property. Allowed values are: |
| Property     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |              |                                                                                                                                                                                                                                          |             |                                                                                                                                                              |
| font         | Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |              |                                                                                                                                                                                                                                          |             |                                                                                                                                                              |
| font-family  | Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |              |                                                                                                                                                                                                                                          |             |                                                                                                                                                              |
| font-size    | Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |              |                                                                                                                                                                                                                                          |             |                                                                                                                                                              |
| font-style   | <p>Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• normal</li> <li>• italic</li> <li>• oblique - Treated the same as italic.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |              |                                                                                                                                                                                                                                          |             |                                                                                                                                                              |
| font-variant | <p>Specifies the variant style of a font. Default is normal. The values are the same as those of the CSS font-variant property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• normal</li> <li>• small-caps</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |              |                                                                                                                                                                                                                                          |             |                                                                                                                                                              |
| font-weight  | Specifies the thickness of the letters of the font. Default is normal. The values are the same as those of the CSS font-weight property. Allowed values are:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |             |      |                                                                                                                                                                                                                                                     |             |                                                                                                                          |           |                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                        |              |                                                                                                                                                                                                                                          |             |                                                                                                                                                              |

| Attributes     | Description                                                                                                      |                                                                                                                                                                                                                                                                                                                                     |       |             |                                               |                      |                                                   |                  |
|----------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|-----------------------------------------------|----------------------|---------------------------------------------------|------------------|
|                |                                                                                                                  | <table><tr><th>Value</th><th>Description</th></tr><tr><td>normal<br/>lighter<br/>100<br/>200<br/>300<br/>400</td><td>Treated as non-bold.</td></tr><tr><td>bold<br/>bolder<br/>500<br/>600<br/>700<br/>800<br/>900</td><td>Treated as bold.</td></tr></table>                                                                       | Value | Description | normal<br>lighter<br>100<br>200<br>300<br>400 | Treated as non-bold. | bold<br>bolder<br>500<br>600<br>700<br>800<br>900 | Treated as bold. |
|                | Value                                                                                                            | Description                                                                                                                                                                                                                                                                                                                         |       |             |                                               |                      |                                                   |                  |
|                | normal<br>lighter<br>100<br>200<br>300<br>400                                                                    | Treated as non-bold.                                                                                                                                                                                                                                                                                                                |       |             |                                               |                      |                                                   |                  |
|                | bold<br>bolder<br>500<br>600<br>700<br>800<br>900                                                                | Treated as bold.                                                                                                                                                                                                                                                                                                                    |       |             |                                               |                      |                                                   |                  |
|                | mso-text-shadow                                                                                                  | Specifies whether a shadow is applied to the text on a text path. Default is false.                                                                                                                                                                                                                                                 |       |             |                                               |                      |                                                   |                  |
|                | text-decoration                                                                                                  | Specifies the style of text decoration. Default is none. The values are the same as those of the CSS text-decoration property. Allowed values are: <ul style="list-style-type: none"><li>• none</li><li>• underline</li><li>• overline</li><li>• line-through</li><li>• blink</li></ul>                                             |       |             |                                               |                      |                                                   |                  |
|                | v-rotate-letters                                                                                                 | Specifies whether the letters of the text are rotated counterclockwise by 90 degrees. Default is false.                                                                                                                                                                                                                             |       |             |                                               |                      |                                                   |                  |
|                | v-same-letter-heights                                                                                            | Specifies whether all letters are the same height regardless of initial case. If true, the lowercase letters are stretched to the height of the uppercase letters. Default is false.                                                                                                                                                |       |             |                                               |                      |                                                   |                  |
|                | v-text-align                                                                                                     | Specifies the alignment of text. Default is left. Allowed values are: <ul style="list-style-type: none"><li>• left</li><li>• right</li><li>• center</li><li>• justify</li><li>• letter-justify - Distributes the extra space between the letters.</li><li>• stretch-justify - Stretches the letters to fill in the space.</li></ul> |       |             |                                               |                      |                                                   |                  |
| v-text-kern    | Specifies whether kerning is turned on. Default is false.                                                        |                                                                                                                                                                                                                                                                                                                                     |       |             |                                               |                      |                                                   |                  |
| v-text-reverse | Specifies whether the layout order of rows is reversed. Default is false. This is used for vertical text layout. |                                                                                                                                                                                                                                                                                                                                     |       |             |                                               |                      |                                                   |                  |

| Attributes          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                                                                                                   |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------------|
|                     | <table border="1"> <tr> <td data-bbox="418 239 662 541">v-text-spacing-mode</td><td data-bbox="662 239 1471 541"> <p>Specifies the mode for letter spacing. Default is <b>tightening</b>. This property determines whether space is removed between each letter (<b>tightening</b>) or added between each letter (<b>tracking</b>). The amount of letter spacing change is defined by the <b>v-text-spacing</b> property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• <b>tightening</b></li> <li>• <b>tracking</b></li> </ul> </td></tr> <tr> <td data-bbox="418 541 662 625">v-text-spacing</td><td data-bbox="662 541 1471 625"> <p>Specifies the amount of spacing for text in 100ths of single line spacing. Default is 100.</p> </td></tr> </table> | v-text-spacing-mode | <p>Specifies the mode for letter spacing. Default is <b>tightening</b>. This property determines whether space is removed between each letter (<b>tightening</b>) or added between each letter (<b>tracking</b>). The amount of letter spacing change is defined by the <b>v-text-spacing</b> property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• <b>tightening</b></li> <li>• <b>tracking</b></li> </ul> | v-text-spacing | <p>Specifies the amount of spacing for text in 100ths of single line spacing. Default is 100.</p> |
| v-text-spacing-mode | <p>Specifies the mode for letter spacing. Default is <b>tightening</b>. This property determines whether space is removed between each letter (<b>tightening</b>) or added between each letter (<b>tracking</b>). The amount of letter spacing change is defined by the <b>v-text-spacing</b> property. Allowed values are:</p> <ul style="list-style-type: none"> <li>• <b>tightening</b></li> <li>• <b>tracking</b></li> </ul>                                                                                                                                                                                                                                                                                                                                              |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                                                                                                   |
| v-text-spacing      | <p>Specifies the amount of spacing for text in 100ths of single line spacing. Default is 100.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                                                                                                   |
|                     | <p>The line (§19.1.2.12), polyline (§19.1.2.15) and curve (§19.1.2.3) elements ignore the following properties:</p> <ul style="list-style-type: none"> <li>• top</li> <li>• left</li> <li>• width</li> <li>• height</li> </ul> <p>The following properties are not inherited by an element that references a shapetype element (§19.1.2.20) via the id attribute:</p> <ul style="list-style-type: none"> <li>• flip</li> <li>• height</li> <li>• left</li> <li>• margin-left</li> <li>• margin-top</li> <li>• position</li> <li>• rotation</li> <li>• top</li> <li>• visibility</li> <li>• width</li> <li>• z-index</li> </ul> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                               |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                                                                                                   |

[Note: The W3C XML Schema definition of this element's content model ([CT\\_ShapeDefaults](#)) is located in §A.6.2. end note]

#### 19.2.2.29 shapelayout (Shape Layout Properties)

This element contains child elements that store information used in the editing and layout of shapes.



| Parent Elements                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------|
| background (Part 1, §17.2.1); hdrShapeDefaults (§14.7.2.1); object (Part 1, §17.3.3.19); pict (§14.2.2.2); pict (§14.5.1); shapeDefaults (§14.7.2.2) |

| Child Elements                        | Subclause  |
|---------------------------------------|------------|
| idmap (Shape ID Map)                  | §19.2.2.14 |
| regrouptable (Shape Grouping History) | §19.2.2.23 |
| rules (Rule Set)                      | §19.2.2.27 |

| Attributes                                  | Description                                                                                                                                                                                                                                                                                                |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ext (VML Extension Handling Behavior)       | Specifies an optional value that indicates how applications that implement VML should interpret extensions not defined as part of the original specification of core VML.                                                                                                                                  |
| Namespace:<br>urn:schemas-microsoft-com:vml | [ <i>Rationale</i> : This part of the original VML specification is included to assist applications that leverage existing VML support in implementing the Office Open XML Format. <i>end rationale</i> ]<br><br>The possible values for this attribute are defined by the ST_Ext simple type (§19.1.3.2). |

[*Note*: The W3C XML Schema definition of this element's content model (CT\_ShapeLayout) is located in §A.6.2. *end note*]

### 19.2.2.30 signatureline (Digital Signature Line)

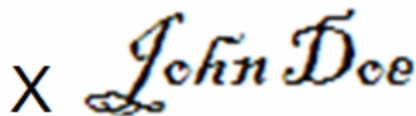
This element specifies a signature line in a document. A signature line provides a visual representation of a signature in a document that is digitally signed. The signature line element indicates that the VML shape in which it appears acts as that visual representation. Typically, the VML shape is an image.

[*Example*:

```
<v:shape ... >
  <v:imagedata ... />
  <o:signatureline v:ext="edit" id="{11979195-DE54-414B-ABD6-5F63607C648B}"
    provid="{00000000-0000-0000-0000-000000000000}" o:suggestedsigner="John Doe"
    o:suggestedsigner2="Manager" o:suggestedsigneremail=johndoe@example.com
    allowcomments="t" issignatureline="t"/>
</v:shape>
```

The signature line in the document might look like this:

9/7/2006



John Doe  
Manager

*end example]*

| Parent Elements                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arc (§19.1.2.1); background (Part 1, §17.2.1); curve (§19.1.2.3); group (§19.1.2.7); hdrShapeDefaults (§14.7.2.1); image (§19.1.2.10); line (§19.1.2.12); object (Part 1, §17.3.3.19); oval (§19.1.2.13); pict (§14.2.2.2); pict (§14.5.1); polyline (§19.1.2.15); rect (§19.1.2.16); roundrect (§19.1.2.17); shape (§19.1.2.19); shapeDefaults (§14.7.2.2); shapetype (§19.1.2.20) |

| Attributes                                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| addlxml (Additional Signature Information)   | <p>Specifies an optional string that is used to store additional information about the digital signature. Default is no value. [<i>Rationale: Some digital signature software stores, for example, server and region information with the signature. end rationale</i>]</p> <p>[Example:</p> <pre>&lt;o:signatureline ... o:addlxml="..."&gt; &lt;/o:signatureline&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |
| allowcomments (User-specified Comments Flag) | <p>Specifies whether the user can attach comments to the signature line at signing time. Default is false.</p> <p>[Example:</p> <pre>&lt;o:signatureline ... allowcomments="true"&gt; &lt;/o:signatureline&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                   |
| ext (VML Extension Handling Behavior)        | <p>Specifies an optional value that indicates how applications that implement VML should interpret extensions not defined as part of the original specification of core VML.</p>                                                                                                                                                                                                                                                                                                                         |

| Attributes                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Namespace:<br>urn:schemas-microsoft-com:vm1 | <p>[<i>Rationale</i>: This part of the original VML specification is included to assist applications that leverage existing VML support in implementing the Office Open XML Format. <i>end rationale</i>]</p> <p>The possible values for this attribute are defined by the ST_Ext simple type (§19.1.3.2).</p>                                                                                                                                                                                      |
| id (Unique ID)                              | <p>Specifies a unique ID for the signature line. Default is no value.</p> <p>[<i>Example</i>:</p> <pre>&lt;o:signatureline ...   id="{11979195-DE54-414B-ABD6-5F63607C648B}"&gt; &lt;/o:signatureline&gt;</pre> <p><i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_Guid simple type (Part 1, §22.9.2.4).</p>                                                                                                                                                |
| issignatureline<br>(Signature Line Flag)    | <p>Specifies whether the image is a signature line. Default is true.</p> <p>[<i>Example</i>:</p> <pre>&lt;o:signatureline ... issignatureline="true"&gt; &lt;/o:signatureline&gt;</pre> <p><i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                           |
| provid (Signature<br>Provider ID)           | <p>Specifies a unique ID identifying which signature provider created the signature line. Default is no value. [<i>Guidance</i> The GUID is typically the CLSID of the provider COM add-in. <i>end guidance</i>]</p> <p>[<i>Example</i>:</p> <pre>&lt;o:signatureline ...   provid="{00000000-0000-0000-0000-000000000000}"&gt; &lt;/o:signatureline&gt;</pre> <p><i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_Guid simple type (Part 1, §22.9.2.4).</p> |
| showsigndate<br>(Show Signed Date<br>Flag)  | <p>Specifies whether the signed signature line image generated should include the date of signing. Default is true.</p>                                                                                                                                                                                                                                                                                                                                                                             |

| Attributes                                                 | Description                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                            | <p>[Example:</p> <pre>&lt;o:signatureline ... showsigndate="false"&gt; &lt;/o:signatureline&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                             |
| signinginstructions<br>(Instructions for Signing)          | <p>Specifies text shown to the user at signing time. Default is no value.</p> <p>[Example:</p> <pre>&lt;o:signatureline ... o:signinginstructions="Sign here"&gt; &lt;/o:signatureline&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                        |
| signinginstructions<br>set (Use Signing Instructions Flag) | <p>Specifies whether there is data set in the signinginstructions attribute. Default is false.</p> <p>[Example:</p> <pre>&lt;o:signatureline ... signinginstructionsset="true"&gt; &lt;/o:signatureline&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| sigprovurl<br>(Signature Provider Download URL)            | <p>Specifies the URL for downloading the signature provider. Default is no value.</p> <p>[Example:</p> <pre>&lt;o:signatureline ... o:sigprovurl="http://www.example.com"&gt; &lt;/o:signatureline&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>            |
| suggestedsigner<br>(Suggested Signer Line 1)               | <p>Specifies the first line of information of who should sign the signature line. Default is no value.</p>                                                                                                                                                                                                                                   |

| Attributes                                                | Description                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                           | <p>[Example:</p> <pre>&lt;o:signatureline ... o:suggestedsigner="John Doe"&gt; &lt;/o:signatureline&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                 |
| suggestedsigner2<br>(Suggested Signer Line 2)             | <p>Specifies the second line of information of who should sign the signature line. Default is no value.</p> <p>[Example:</p> <pre>&lt;o:signatureline ... o:suggestedsigner2="Title"&gt; &lt;/o:signatureline&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>       |
| suggestedsigneremail<br>(Suggested Signer E-mail Address) | <p>Specifies the e-mail address of who should sign the signature line. Default is no value.</p> <p>[Example:</p> <pre>&lt;o:signatureline ... o:suggestedsigneremail="johndoe@example.com"&gt; &lt;/o:signatureline&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |

[Note: The W3C XML Schema definition of this element's content model (CT\_SignatureLine) is located in §A.6.2.  
end note]

### 19.2.2.31 skew (Skew Transform)

This element specifies a perspective skew effect on a shape. The skew is applied to vector graphics, not image data on the shape in picture fills or image elements. The on attribute shall be true and a permitted value assigned to the matrix attribute.

| Parent Elements                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arc (§19.1.2.1); background (Part 1, §17.2.1); curve (§19.1.2.3); group (§19.1.2.7); hdrShapeDefaults (§14.7.2.1); image (§19.1.2.10); line (§19.1.2.12); object (Part 1, §17.3.3.19); oval (§19.1.2.13); pict (§14.2.2.2); pict (§14.5.1); polyline (§19.1.2.15); rect (§19.1.2.16); roundrect (§19.1.2.17); shape (§19.1.2.19); shapeDefaults (§14.7.2.2); shapedefaults (§19.2.2.28); shapetype (§19.1.2.20) |

| Attributes                                                                               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ext (VML Extension Handling Behavior)<br><br>Namespace:<br>urn:schemas-microsoft-com:VML | Specifies an optional value that indicates how applications that implement VML should interpret extensions not defined as part of the original specification of core VML.<br><br>[ <i>Rationale:</i> This part of the original VML specification is included to assist applications that leverage existing VML support in implementing the Office Open XML Format. <i>end rationale</i> ]<br><br>The possible values for this attribute are defined by the ST_Ext simple type (§19.1.3.2). |
| id (Skew ID)                                                                             | Specifies a name that provides a unique identifier for a skew. Default is no value.<br><br>The possible values for this attribute are defined by the W3C XML Schema string datatype.                                                                                                                                                                                                                                                                                                       |
| matrix (Skew Perspective Matrix)                                                         | Specifies a perspective transform of a skew. Default is "1,0,0,1,0,0".<br><br>The matrix is given in the form " $s_{xx}, s_{xy}, s_{yx}, s_{yy}, p_x, p_y$ " where $s$ = scale and $p$ = perspective. If the offset attribute is in absolute units then $p_x, p_y$ are in 1/EMU units; otherwise they are an inverse fraction of the shape size.<br><br>The possible values for this attribute are defined by the W3C XML Schema string datatype.                                          |
| offset (Skew Offset)                                                                     | Specifies the amount of x,y offset from the shape's location. Default is "2pt,2pt". Positive values are measured from the upper left of the face of the shape.<br><br>Values are specified as either an absolute measurement or a fractional value of the shape's dimensions (−0.5 to +0.5).<br><br>The possible values for this attribute are defined by the W3C XML Schema string datatype.                                                                                              |
| on (Skew Toggle)                                                                         | Specifies whether a skew is displayed. Default is false.<br><br>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).                                                                                                                                                                                                                                                                                                                            |
| origin (Skew Origin)                                                                     | Specifies the origin of the skew. Default is "0,0".<br><br>Values are typically a percentage of the shape's size and range from -0.5 to +0.5. Larger values are allowed that give offsets as multiples of the shape's size.                                                                                                                                                                                                                                                                |

| Attributes | Description                                                                               |
|------------|-------------------------------------------------------------------------------------------|
|            | The possible values for this attribute are defined by the W3C XML Schema string datatype. |

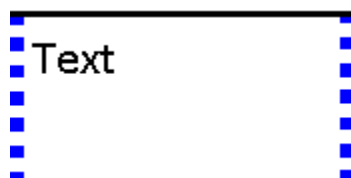
[Note: The W3C XML Schema definition of this element's content model ([CT\\_Skew](#)) is located in §A.6.2. *end note*]

### 19.2.2.32 top (Text Box Top Stroke)

This element specifies the stroke properties for the top border of a text box. It entirely supercedes its parent stroke element if its on attribute is true. Thus the default value of an unspecified attribute overrides a value specified in the parent. If the on attribute is false or not specified, the border is not shown.

[Example: The text box borders are set independently. Note that the bottom border does not inherit the weight from the parent stroke element.

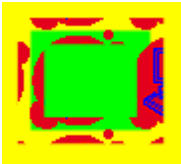
```
<v:stroke weight="2.25pt">
  <o:left v:ext="view" dashstyle="1 1" color="blue" weight="5pt" on="t"/>
  <o:top v:ext="view" color="black" weight="2.25pt" on="t"/>
  <o:right v:ext="view" dashstyle="1 1" color="blue" weight="5pt" on="t"/>
  <o:bottom v:ext="view" color="black" on="t"/>
  <o:column v:ext="view" color="#f60" on="t"/>
</v:stroke>
```



*end example]*

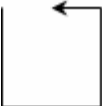
| Parent Elements                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| background (Part 1, §17.2.1); hdrShapeDefaults (§14.7.2.1); object (Part 1, §17.3.3.19); pict (§14.2.2.2); pict (§14.5.1); shapeDefaults (§14.7.2.2); stroke (§19.1.2.21) |

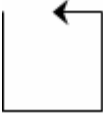
| Attributes                          | Description                                                                                                                                                                  |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| althref (Alternate Image Reference) | Specifies an alternate reference for an image in Macintosh PICT format.<br><br>[Example:<br><br><pre>&lt;v:stroke ... althref="myimage.pcz" ... &gt; &lt;/v:stroke&gt;</pre> |

| Attributes                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                         | <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| color (Stroke Color)                    | <p>Specifies the stroke color. Overrides the strokecolor attribute of a shape. Default is black. See the fillcolor attribute for a list of supported named colors.</p> <p>[Example: The shape stroke is blue:</p> <pre>&lt;v:shape ... strokecolor="red" ... &gt;   &lt;v:stroke color="blue"/&gt; &lt;/v:shape&gt;</pre> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| color2 (Stroke Alternate Pattern Color) | <p>Specifies a second color for strokes, used when filltype is pattern. Default is no value.</p> <p>When a pattern fill is used for the stroke, the stroke color is used in colored parts of the source image. The color2 defines an alternate color to use in place of black in the source image.</p> <p>[Example: This unusual example is intended to demonstrate how the image and colors interact to create a patterned stroke. The yellow background shows transparency. The non-square shape and square image create an effective offset. The heavy stroke weight shows more of the image. The green shape fill shows how the stroke is overlaid on the shape.</p> <pre>&lt;v:background fillcolor="yellow"/&gt; &lt;v:shape style="width:60;height:50"   strokecolor="red" fillcolor="lime"   path="m 0,0 l 0,1000 1000,1000 1000,0 x e"&gt;   &lt;v:stroke filltype="pattern" weight="10pt"     src="myimage.gif" color2="blue"/&gt; &lt;/v:shape&gt;</pre> <div data-bbox="414 1608 594 1770">  </div> <p>, where myimage.gif is: </p> <p><i>end example]</i></p> |



| Attributes                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                 | The possible values for this attribute are defined by the ST_ColorType simple type (§20.1.2.3).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| dashstyle (Stroke Dash Pattern) | <p>Specifies the dot and dash pattern for a stroke. Default is solid. Pre-defined values are:</p> <ul style="list-style-type: none"> <li>• solid</li> <li>• shortdash</li> <li>• shortdot</li> <li>• shortdashdot</li> <li>• shortdashdotdot</li> <li>• dot</li> <li>• dash</li> <li>• longdash</li> <li>• dashdot</li> <li>• longdashdot</li> <li>• longdashdotdot</li> </ul> <p>A custom-defined dash pattern can also be specified using a series of numbers. These define the length of the dash (the drawn part of the stroke) and the length of the space between the dashes. The lengths are relative to the line width: a length of 1 is equal to the line width. The endcap style is applied to each dash but the arrow style is not. The string defines the length of the dash then the length of the space. This can be repeated to form complex dash styles. The string should always contain a pair of numbers; if it contains an odd number of numbers the last is disregarded. 0 implies a dot that is fourfold symmetrical (with round end caps, this is a circle).</p> <p>[Example:</p> <pre>&lt;v:stroke dashstyle="0 2" weight="3pt"   endcap="round"&gt; &lt;/v:stroke&gt;</pre>  <pre>&lt;v:stroke dashstyle="longdashdotdot"   weight="2pt"&gt; &lt;/v:stroke&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |

| Attributes                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| endarrow (Line End Arrowhead)              | <p>Specifies an arrowhead for the end of a line. Default is none. The path shall not be closed with the x command for the arrowhead to show. Allowed values are:</p> <ul style="list-style-type: none"> <li>• none</li> <li>• block</li> <li>• classic</li> <li>• diamond</li> <li>• oval</li> <li>• open</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke endarrow="classic"/&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_StrokeArrowType simple type (§19.1.3.8).</p> |
| endarrowlength (Line End Arrowhead Length) | <p>Specifies the length of the arrowhead at the end of a line. Default is medium. Allowed values are:</p> <ul style="list-style-type: none"> <li>• short</li> <li>• medium</li> <li>• long</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke ... endarrowlength="long" ... /&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_StrokeArrowLength simple type (§19.1.3.7).</p>                                                                                                |
| endarrowwidth (Line End Arrowhead Width)   | <p>Specifies the width of the arrowhead at the end of a line. Default is medium. Allowed values are:</p> <ul style="list-style-type: none"> <li>• narrow</li> <li>• medium</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                    |

| Attributes                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                       | <ul style="list-style-type: none"> <li>• wide</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke ... endarrowwidth="wide" ... /&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_StrokeArrowWidth simple type (§19.1.3.9).</p>                                                                                                                                                                                                          |
| endcap (Line End Cap)                 | <p>Specifies the cap style for the end of a stroke. Default is flat. Allowed values are:</p> <ul style="list-style-type: none"> <li>• flat</li> <li>• square</li> <li>• round</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke ... endcap="round" weight="10pt" ... /&gt;</pre>  <p>endcap="flat"</p> <p>endcap="square"</p> <p>endcap="round"</p> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_StrokeEndCap simple type (§19.1.3.10).</p> |
| ext (VML Extension Handling Behavior) | <p>Specifies an optional value that indicates how applications that implement VML should interpret extensions not defined as part of the original specification of core VML.</p> <p>Namespace:<br/>urn:schemas-</p> <p>[Rationale: This part of the original VML specification is included to assist applications that leverage existing VML support in implementing the Office Open XML Format. end</p>                                                                                                                                                          |

| Attributes                       | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| microsoft-com:vml                | <p><i>rationale</i>]</p> <p>The possible values for this attribute are defined by the ST_Ext simple type (§19.1.3.2).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| filltype (Stroke Image Style)    | <p>Specifies the kind of fill used for the background of a stroke. Default is solid. Allowed values are:</p> <ul style="list-style-type: none"> <li>• solid - The fill pattern is solid.</li> <li>• tile - The fill image is tiled.</li> <li>• pattern - The fill image is stretched to form a pattern.</li> <li>• frame - The fill image becomes a border for the shape.</li> </ul> <p>[Example:</p> <pre>&lt;v:shape style="width:50;height:50"   strokecolor="red"   path="m 0,0 l 0,1000 1000,1000 1000,0 x e"&gt;   &lt;v:stroke filltype="frame" weight="10pt"     src="border.gif"/&gt; &lt;/v:shape&gt;</pre> <div data-bbox="414 968 513 1066"></div> <div data-bbox="766 968 863 1066"></div> <p>, where border.gif is:</p> <p><i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_FillType simple type (§19.1.3.4).</p> |
| forcedash (Force Dashed Outline) | <p>Specifies whether a dashed outline is used to draw a shape when a shape has no line or fill. Default is false.</p> <p>Used by PresentationML placeholders to draw a dashed outline when there is no line and no fill for a shape.</p> <p>[Example:</p> <pre>&lt;v:shape ... o:forcedash="true" ... &gt; &lt;/v:shape&gt;</pre> <p><i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| href (Original Image Reference)  | <p>Specifies the URL to the original image file. Used only if the picture has been linked and embedded. Default is no value.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

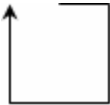
| Attributes                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |             |        |                       |         |                                        |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|--------|-----------------------|---------|----------------------------------------|
|                                                    | <p>[Example:</p> <pre>&lt;v:fill ... o:href="myimage.gif" ... &gt; &lt;/v:fill&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |             |        |                       |         |                                        |
| <p>imagealignshape<br/>(Stoke Image Alignment)</p> | <p>Specifies the alignment of the stroke image. If true, the image is aligned with the shape. Otherwise, it is aligned with the containing scope. Default is true.</p> <p>[Example: The top position offset shifts the image alignment relative to the containing window:</p> <pre>&lt;v:shape fillcolor="silver"   style="top:20;width:50;height:50"   path="m 0,0 l 0,1000 1000,1000 1000,0 x e"&gt;   &lt;v:stroke imagealignshape="false" weight="20pt"     filltype="tile" src="myimage.gif"/&gt; &lt;/v:shape&gt;</pre> <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;">imagealignshape="false"</div> </div> <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;">imagealignshape="false"</div> </div> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |       |             |        |                       |         |                                        |
| <p>imageaspect<br/>(Stroke Image Aspect Ratio)</p> | <p>Specifies how the stroke image aspect ratio is preserved. Default is ignore. Allowed values are:</p> <table border="1" data-bbox="418 1717 1318 1864"> <thead> <tr> <th>Value</th><th>Description</th></tr> </thead> <tbody> <tr> <td>ignore</td><td>Ignore aspect issues.</td></tr> <tr> <td>atleast</td><td>Image is at least as big as imagesize.</td></tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Value | Description | ignore | Ignore aspect issues. | atleast | Image is at least as big as imagesize. |
| Value                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |             |        |                       |         |                                        |
| ignore                                             | Ignore aspect issues.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |        |                       |         |                                        |
| atleast                                            | Image is at least as big as imagesize.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |             |        |                       |         |                                        |

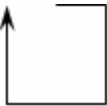
| Attributes                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |                                    |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------------------|
|                                   | <table border="1" data-bbox="418 247 1320 296"> <tr> <td data-bbox="418 247 626 296">atmost</td><td data-bbox="626 247 1320 296">Image is no bigger than imagesize.</td></tr> </table> <p data-bbox="418 331 537 363">[Example:</p> <pre data-bbox="456 405 1110 537"> &lt;v:stroke filltype="frame" weight="10pt"   src="border.gif" imagealignshape="true"   imageaspect="atleast"&gt; &lt;/v:stroke&gt; </pre> <div data-bbox="451 573 604 919">  </div> <p data-bbox="621 646 1005 678">imagealignshape="ignore"</p> <p data-bbox="621 783 1021 814">imagealignshape="atleast"</p> <p data-bbox="621 888 1005 919">imagealignshape="atmost"</p> <p data-bbox="418 961 578 993">end example]</p> <p data-bbox="418 1035 1429 1098">The possible values for this attribute are defined by the ST_ImageAspect simple type (§19.1.3.5).</p> | atmost | Image is no bigger than imagesize. |
| atmost                            | Image is no bigger than imagesize.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |                                    |
| imagesize (Stroke Image Size)     | <p data-bbox="418 1119 1336 1150">Specifies the size of the image for the stroke. Default is the size of the image.</p> <p data-bbox="418 1192 537 1224">[Example:</p> <pre data-bbox="456 1266 1065 1297"> &lt;v:stroke ... imagesize="10pt,10pt" ... /&gt; </pre> <p data-bbox="418 1329 578 1360">end example]</p> <p data-bbox="418 1402 1377 1465">The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                                    |
| insetpen (Inset Border From Path) | <p data-bbox="418 1486 1458 1591">Specifies that the border shall be displayed inside of the path defining the shape, rather than along the path (the default border placement), or outside of the path as might be done with an image.</p> <p data-bbox="418 1633 537 1665">[Example:</p> <pre data-bbox="456 1707 938 1770"> &lt;v:shape ... insetpen="true" ... &gt; &lt;/v:shape&gt; </pre> <p data-bbox="418 1801 578 1833">end example]</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        |                                    |

| Attributes                             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                        | The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>joinstyle (Line End Join Style)</b> | <p>Specifies the join style for line ends. Default is round.</p> <ul style="list-style-type: none"> <li>• round</li> <li>• bevel</li> <li>• miter</li> </ul> <p>[Example:</p> <pre>&lt;v:polyline strokeweight="10pt" strokecolor="navy"   points="10pt,10pt,50pt,50pt,90pt,10pt"&gt;   &lt;v:stroke joinstyle="bevel"/&gt; &lt;/v:polyline&gt;</pre>  <p>joinstyle="round"</p> <p>joinstyle="bevel"</p> <p>joinstyle="miter"</p> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_StrokeJoinStyle simple type (§19.1.3.11).</p> |
| <b>linestyle (Stroke Line Style)</b>   | <p>Specifies the line style of the stroke. Default is single.</p> <ul style="list-style-type: none"> <li>• single</li> <li>• thinThin</li> <li>• thinThick</li> <li>• thickThin</li> <li>• thickBetweenThin</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke linestyle="thickThin" weight="5pt"&gt; &lt;/v:stroke&gt;</pre>                                                                                                                                                                                                                                                                                                                              |

| Attributes                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                |  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_StrokeLineStyle simple type (§19.1.3.12).</p>                                                                                                                                                                                                                                                                                                            |
| miterlimit (Miter Joint Limit) | <p>Specifies the smoothness of the miter joint, or the maximum distance between the inner point and outer point of a joint. This number is a multiple of the thickness of the line. Default is 8.</p> <p>[Example:</p> <pre>&lt;v:stroke joinstyle="miter" weight="10pt"   miterlimit="2"&gt; &lt;/v:stroke&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema decimal datatype.</p>  |
| on (Stroke Toggle)             | <p>Specifies whether the stroke is displayed. Default is true. This attribute overrides the shape's stroke attribute.</p> <p>[Example:</p> <pre>&lt;v:rect style="width:50;height:50" stroked="true"   fillcolor="lime" strokecolor="red"&gt;   &lt;v:stroke on="false" weight="5pt"/&gt; &lt;/v:rect&gt;</pre>  <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the ST_TrueFalse simple type (§20.1.2.5).</p> |
| opacity (Stroke Opacity)       | <p>Specifies the amount of transparency of a stroke. Default is 1.0.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |



| Attributes                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                   | <p>[Example:</p> <pre>&lt;v:rect style="width:50;height:50"   fillcolor="lime" strokecolor="red"&gt;   &lt;v:stroke weight="5pt" opacity="50%"/&gt; &lt;/v:rect&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                  |
| src (Stroke Image Location)       | <p>Specifies the source image to load for a stroke fill. Default is no value.</p> <p>[Example:</p> <pre>&lt;v:stroke ... src="myimage.gif" ... &gt; &lt;/v:stroke&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                                                                                                                                                  |
| startarrow (Line Start Arrowhead) | <p>Specifies an arrowhead for the start of a line. Default is none. The path shall not be closed with the x command for the arrowhead to show. Allowed values are:</p> <ul style="list-style-type: none"> <li>• none</li> <li>• block</li> <li>• classic</li> <li>• diamond</li> <li>• oval</li> <li>• open</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke startarrow="classic"/&gt;</pre>  <p>end example]</p> |

| Attributes                                                | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>startarrowlength<br/>(Line Start Arrowhead Length)</p> | <p>The possible values for this attribute are defined by the ST_StrokeArrowType simple type (§19.1.3.8).</p> <p>Specifies the length of the arrowhead at the start of a line. Default is medium. Allowed values are:</p> <ul style="list-style-type: none"> <li>• short</li> <li>• medium</li> <li>• long</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke ... startarrowlength="long" ... /&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_StrokeArrowLength simple type (§19.1.3.7).</p> |
| <p>startarrowwidth<br/>(Line Start Arrowhead Width)</p>   | <p>Specifies the width of the arrowhead at the start of a line. Default is medium. Allowed values are:</p> <ul style="list-style-type: none"> <li>• narrow</li> <li>• medium</li> <li>• wide</li> </ul> <p>[Example:</p> <pre>&lt;v:stroke ... startarrowwidth="wide" ... /&gt;</pre>  <p>end example]</p> <p>The possible values for this attribute are defined by the ST_StrokeArrowWidth simple type (§19.1.3.9).</p>                                                                                                              |
| <p>title (Stroke Title)</p>                               | <p>Specifies the title of an embedded stroke image. This is typically set to the comment property of the image, which is often blank.</p> <p>[Example:</p> <pre>&lt;v:fill ... o:title="alt text" ... &gt;</pre>                                                                                                                                                                                                                                                                                                                                                                                                         |

| Attributes             | Description                                                                                                                                                                                                                          |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | <p><code>&lt;/v:fill&gt;</code></p> <p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>                                                                      |
| weight (Stroke Weight) | <p>Specifies the thickness of a stroke. Default is 1. This attribute overrides the shape's <code>strokeWeight</code> attribute.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |

[Note: The W3C XML Schema definition of this element's content model (`CT_StrokeChild`) is located in §A.6.2. *end note]*

### 19.2.3 Simple Types

The following additional simple type information in the `urn:schemas-microsoft-com:office:office` namespace is used for documents of a transitional conformance class.

#### 19.2.3.1 `ST_AlternateMathContentType` (Alternate Math Content Type)

This simple type specifies the content type of the XML markup stored within the `equationxml` element.

The following values are reserved:

| Value                          | Meaning                                                                                                 |
|--------------------------------|---------------------------------------------------------------------------------------------------------|
| <code>officeopenxmlmath</code> | Specifies that the data has been stored using the Office Open XML Math syntax defined in Part 1, §22.1. |
| <code>mathml</code>            | Specifies that the data has been stored using the MathML syntax.                                        |

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Referenced By                                     |
|---------------------------------------------------|
| <code>equationxml@contentType</code> (§19.2.2.10) |

[Note: The W3C XML Schema definition of this simple type's content model (`ST_AlternateMathContentType`) is located in §A.6.2. *end note]*

#### 19.2.3.2 `ST_Angle` (Callout Angles)

This simple type specifies values for the `angle` attribute of the `callout` element (§19.2.2.2).

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value      | Description                                   |
|------------------------|-----------------------------------------------|
| 30 (30 degrees)        | 30 degrees.                                   |
| 45 (45 degrees)        | 45 degrees.                                   |
| 60 (60 degrees)        | 60 degrees.                                   |
| 90 (90 degrees)        | 90 degrees.                                   |
| any (Any Angle)        | Unconstrained angle.                          |
| auto (Automatic Angle) | The application chooses an appropriate angle. |

| Referenced By             |
|---------------------------|
| callout@angle (§19.2.2.2) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_Angle) is located in §A.6.2. *end note*]

### 19.2.3.3 ST\_BWMode (Black And White Modes)

This simple type specifies the ways in which a shape renders in a black and white context.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value                                    | Description                                                                        |
|------------------------------------------------------|------------------------------------------------------------------------------------|
| auto (Automatic)                                     | Use the bwpure or bwnormal attributes based on the type of output being generated. |
| black (Black)                                        | Use black only.                                                                    |
| blackTextAndLines (Black Text And Lines)             | Use shades of gray, except for text and lines, which are black.                    |
| color (Color)                                        | Do not use grayscale or black and white.                                           |
| grayOutline (Gray Outlines)                          | Use gray and white only.                                                           |
| grayScale (Grayscale)                                | Use shades of gray only.                                                           |
| hide (Hide Object When Displayed in Black and White) | Do not display the object when rendering in only black and white.                  |
| highContrast (Black And White)                       | Use black and white only, no grays.                                                |
| inverseGray (Inverse Grayscale)                      | Use shades of gray only, but invert light and dark grays.                          |
| lightGrayscale (Light grayscale)                     | Use light shades of gray only.                                                     |
| undrawn (Do Not Show)                                | Do not show the object.                                                            |
| white (White)                                        | Use white only.                                                                    |

| Referenced By                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arc@bwmode (§19.1.2.1); arc@bwnormal (§19.1.2.1); arc@bwpure (§19.1.2.1); background@bwmode (§19.1.2.2); background@bwnormal (§19.1.2.2); background@bwpure (§19.1.2.2); curve@bwmode (§19.1.2.3); curve@bwnormal (§19.1.2.3); curve@bwpure (§19.1.2.3); image@bwmode (§19.1.2.10); image@bwnormal (§19.1.2.10); image@bwpure (§19.1.2.10); line@bwmode (§19.1.2.12); line@bwnormal (§19.1.2.12); line@bwpure (§19.1.2.12); oval@bwmode (§19.1.2.13); oval@bwnormal (§19.1.2.13); oval@bwpure (§19.1.2.13); polyline@bwmode (§19.1.2.15); polyline@bwnormal (§19.1.2.15); polyline@bwpure (§19.1.2.15); rect@bwmode (§19.1.2.16); rect@bwnormal (§19.1.2.16); rect@bwpure (§19.1.2.16); roundrect@bwmode (§19.1.2.17); roundrect@bwnormal (§19.1.2.17); roundrect@bwpure (§19.1.2.17); shape@bwmode (§19.1.2.19); shape@bwnormal (§19.1.2.19); shape@bwpure (§19.1.2.19); shapetype@bwmode (§19.1.2.20); shapetype@bwnormal (§19.1.2.20); shapetype@bwpure (§19.1.2.20) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_BWMode) is located in §A.6.2. *end note*]

#### 19.2.3.4 ST\_CalloutDrop (Callout Drop Location)

This simple type specifies location values for the drop attribute of the callout element (§19.2.2.2).

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Referenced By            |
|--------------------------|
| callout@drop (§19.2.2.2) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_CalloutDrop) is located in §A.6.2. *end note*]

#### 19.2.3.5 ST\_CalloutPlacement (Callout Placement)

This type defines location values used by the drop attribute of the callout element (§19.2.2.2).

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value             | Description                   |
|-------------------------------|-------------------------------|
| bottom (Bottom placement)     | Bottom of the shape.          |
| center (Center placement)     | Vertical center of the shape. |
| top (Top placement)           | Top of the shape.             |
| user (User-defined placement) | User-defined placement.       |

[Note: The W3C XML Schema definition of this simple type's content model ([ST\\_CalloutPlacement](#)) is located in §A.6.2. end note]

### 19.2.3.6 ST\_ColorMode (Extrusion Color Types)

This simple type specifies ways that the extrusion color is defined.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value           | Description                                                                           |
|-----------------------------|---------------------------------------------------------------------------------------|
| auto (Use Shape Fill Color) | Specifies that the color of the extrusion is the same as the fill color of the shape. |
| custom (Use Custom Color)   | Specifies that the extrusion is the color of the color attribute.                     |

| Referenced By                    |
|----------------------------------|
| extrusion@colormode (§19.2.2.11) |

[Note: The W3C XML Schema definition of this simple type's content model ([ST\\_ColorMode](#)) is located in §A.6.2. end note]

### 19.2.3.7 ST\_ConnectorType (Connector Type)

This simple type specifies types of connectors.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value             | Description                |
|-------------------------------|----------------------------|
| curved (Curved Connector)     | A curved connector.        |
| elbow (Elbow Connector)       | An elbow-shaped connector. |
| none (No Connector)           | No connector.              |
| straight (Straight Connector) | A straight connector.      |

| Referenced By                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arc@connectortype (§19.1.2.1); curve@connectortype (§19.1.2.3); image@connectortype (§19.1.2.10); line@connectortype (§19.1.2.12); oval@connectortype (§19.1.2.13); polyline@connectortype (§19.1.2.15); rect@connectortype (§19.1.2.16); roundrect@connectortype (§19.1.2.17); shape@connectortype (§19.1.2.19); shapetype@connectortype (§19.1.2.20) |

[Note: The W3C XML Schema definition of this simple type's content model ([ST\\_ConnectorType](#)) is located in §A.6.2. end note]

### 19.2.3.8 ST\_ConnectType (Connection Locations Type)

This simple type specifies types of connection locations.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value                 | Description                                                                                                                           |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| custom (Custom Connections)       | A custom array of connection locations.                                                                                               |
| none (No)                         | No connection locations.                                                                                                              |
| rect (Four Connections)           | Standard four connection points at midpoints of top, bottom, left, and right sides.                                                   |
| segments (Edit Point Connections) | The edit points of the shape are used. Edit points are the black dots in a graphical editor that are used to select parts of a shape. |

| Referenced By                 |
|-------------------------------|
| path@connecttype (§19.1.2.14) |

[Note: The W3C XML Schema definition of this simple type's content model ([ST\\_ConnectType](#)) is located in §A.6.2. end note]

### 19.2.3.9 ST\_ContentType (Content Type)

This simple type specifies a content type.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Referenced By                |
|------------------------------|
| ink@contentType (§19.2.2.15) |

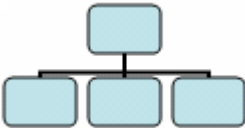
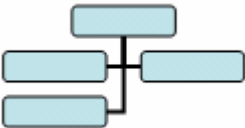
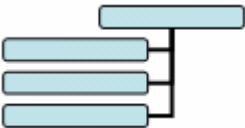
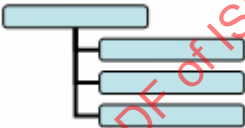
[Note: The W3C XML Schema definition of this simple type's content model ([ST\\_ContentType](#)) is located in §A.6.2. end note]

### 19.2.3.10 ST\_DiagramLayout (Diagram Layout Type)

This simple type specifies the style of automatic layout to apply to a node in a diagram.

This simple type's contents are a restriction of the W3C XML Schema integer datatype.

| Enumeration Value     | Description                |
|-----------------------|----------------------------|
| 0 (Top-down Centered) | Top-down, centered layout. |

| Enumeration Value      | Description                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------------------|
|                        |                                 |
| 1 (Hanging Both Sides) | Hanging, both sides layout.<br> |
| 2 (Hanging Right Side) | Hanging, right side layout.<br> |
| 3 (Hanging Left Side)  | Hanging, left side layout.<br>  |

| Referenced By                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arc@dgmlayout (§19.1.2.1); arc@dgmlayoutmru (§19.1.2.1); curve@dgmlayout (§19.1.2.3);<br>curve@dgmlayoutmru (§19.1.2.3); group@dgmlayout (§19.1.2.7); group@dgmlayoutmru (§19.1.2.7);<br>image@dgmlayout (§19.1.2.10); image@dgmlayoutmru (§19.1.2.10); line@dgmlayout (§19.1.2.12);<br>line@dgmlayoutmru (§19.1.2.12); oval@dgmlayout (§19.1.2.13); oval@dgmlayoutmru (§19.1.2.13);<br>polyline@dgmlayout (§19.1.2.15); polyline@dgmlayoutmru (§19.1.2.15); rect@dgmlayout (§19.1.2.16);<br>rect@dgmlayoutmru (§19.1.2.16); roundrect@dgmlayout (§19.1.2.17); roundrect@dgmlayoutmru<br>(§19.1.2.17); shape@dgmlayout (§19.1.2.19); shape@dgmlayoutmru (§19.1.2.19); shapetype@dgmlayout<br>(§19.1.2.20); shapetype@dgmlayoutmru (§19.1.2.20) |

[Note: The W3C XML Schema definition of this simple type's content model ([ST\\_DiagramLayout](#)) is located in §A.6.2. end note]

#### 19.2.3.11 [ST\\_ExtrusionPlane](#) (Extrusion Planes)

This simple type specifies three axis-aligned planes.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value | Description   |
|-------------------|---------------|
| XY (XY Plane)     | The xy plane. |
| YZ (YZ Plane)     | The yz plane. |
| ZX (ZX Plane)     | The zx plane. |



| Referenced By                |
|------------------------------|
| extrusion@plane (§19.2.2.11) |

[Note: The W3C XML Schema definition of this simple type's content model ([ST\\_ExtrusionPlane](#)) is located in §A.6.2. *end note*]

### 19.2.3.12 ST\_ExtrusionRender (Extrusion Rendering Types)

This simple type specifies different rendering modes.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value            | Description                                                   |
|------------------------------|---------------------------------------------------------------|
| boundingCube (Bounding Cube) | Rendering displays the bounding cube that contains the shape. |
| solid (Solid)                | Rendering displays a solid shape.                             |
| wireFrame (Wireframe)        | Rendering displays a wireframe shape.                         |

| Referenced By                 |
|-------------------------------|
| extrusion@render (§19.2.2.11) |

[Note: The W3C XML Schema definition of this simple type's content model ([ST\\_ExtrusionRender](#)) is located in §A.6.2. *end note*]

### 19.2.3.13 ST\_ExtrusionType (Extrusion Type)

This simple type specifies types of extrusions.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value                    | Description                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| parallel (Parallel Projection)       | Extrusion is rendered so that the center of projection is infinitely far away; the extrusion lines do not converge. |
| perspective (Perspective Projection) | Extrusion is rendered to a center of projection, which is the same as the vanishing point for unrotated objects.    |

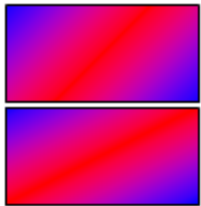
| Referenced By               |
|-----------------------------|
| extrusion@type (§19.2.2.11) |

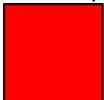
[Note: The W3C XML Schema definition of this simple type's content model (ST\_ExtrusionType) is located in §A.6.2. *end note*]

#### 19.2.3.14 ST\_FillType (Shape Fill Type)

This simple type specifies the types for fills applied to a shape.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value                         | Description                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| background (Use Background Fill)          | Use the fill properties of the background of the object on which the shape exists, such as the page.                                                                                                                                                                                                                                                       |
| frame (Stretch Image to Fit)              | The image is stretched to fill the shape.<br>                                                                                                                                                                                                                             |
| gradient (Linear Gradient)                | The fill colors blend together in a linear gradient from bottom to top.<br>                                                                                                                                                                                             |
| gradientCenter (Centered Radial Gradient) | This indicates that the gradient runs across the center of the shape for a gradient that is defined as gradientRadial in the parent fill element (§19.1.2.5) that is defined in the VML namespace.                                                                                                                                                         |
| gradientRadial (Radial Gradient)          | The fill colors blend together in a radial gradient.<br>                                                                                                                                                                                                                |
| gradientUnscaled (Unscaled Gradient)      | The gradient angle is not scaled relative to the aspect ratio of the shape.<br><br>[Example: The shapes below are twice as wide as they are tall. The first shape uses an unscaled gradient and the second uses a regular scaled gradient:<br><br><i>end example</i> ] |

| Enumeration Value       | Description                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| pattern (Image Pattern) | The image is used to create a pattern using the fill colors.<br> |
| solid (Solid Fill)      | The fill pattern is a solid color.<br>                           |
| tile (Tiled Image)      | The fill image is tiled.<br>                                     |

| Referenced By          |
|------------------------|
| fill@type (§19.2.2.13) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_FillType) is located in §A.6.2. *end note*]

#### 19.2.3.15 ST\_How (Alignment Type)

This simple type specifies types of alignment.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value         | Description                  |
|---------------------------|------------------------------|
| bottom (Bottom Alignment) | Bottom vertical alignment.   |
| center (Center Alignment) | Center horizontal alignment. |
| left (Left Alignment)     | Left horizontal alignment.   |
| middle (Middle Alignment) | Middle vertical alignment.   |
| right (Right Alignment)   | Right horizontal alignment.  |
| top (Top Alignment)       | Top vertical alignment.      |

| Referenced By      |
|--------------------|
| r@how (§19.2.2.22) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_How) is located in §A.6.2. *end note*]

### 19.2.3.16 ST\_HrAlign (Alignment Type)

This simple type specifies alignments for horizontal rules.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value         | Description     |
|---------------------------|-----------------|
| center (Center Alignment) | Center aligned. |
| left (Left Alignment)     | Left aligned.   |
| right (Right Alignment)   | Right aligned.  |

| Referenced By                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arc@hralign (§19.1.2.1); curve@hralign (§19.1.2.3); group@hralign (§19.1.2.7); image@hralign (§19.1.2.10); line@hralign (§19.1.2.12); oval@hralign (§19.1.2.13); polyline@hralign (§19.1.2.15); rect@hralign (§19.1.2.16); roundrect@hralign (§19.1.2.17); shape@hralign (§19.1.2.19); shapetype@hralign (§19.1.2.20) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_HrAlign) is located in §A.6.2. *end note*]

### 19.2.3.17 ST\_InsetMode (Inset Margin Type)

This simple type specifies how inner text margins are obtained.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value        | Description                                           |
|--------------------------|-------------------------------------------------------|
| auto (Automatic Margins) | Inner text margins are calculated by the application. |
| custom (Custom Margins)  | Inner text margins are specified by the shape.        |

| Referenced By                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arc@insetmode (§19.1.2.1); curve@insetmode (§19.1.2.3); group@insetmode (§19.1.2.7); image@insetmode (§19.1.2.10); line@insetmode (§19.1.2.12); oval@insetmode (§19.1.2.13); polyline@insetmode (§19.1.2.15); rect@insetmode (§19.1.2.16); roundrect@insetmode (§19.1.2.17); shape@insetmode (§19.1.2.19); shapetype@insetmode (§19.1.2.20); textbox@insetmode (§19.1.2.22) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_InsetMode) is located in §A.6.2. *end note*]

### 19.2.3.18 ST\_OLEDrawAspect ( Embedded Object Representations)

This simple type specifies the ways in which embedded objects are displayed in the application.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value  | Description                                                                                                           |
|--------------------|-----------------------------------------------------------------------------------------------------------------------|
| Content (Snapshot) | The object's presentation is a picture of the contained document (provided by the embedded object server technology). |
| Icon (Icon)        | The object's presentation is an icon.                                                                                 |

| Referenced By                     |
|-----------------------------------|
| OLEObject@DrawAspect (§19.2.2.20) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_OLEDrawAspect) is located in §A.6.2. *end note*]

### 19.2.3.19 ST\_OLELinkType (Embedded Object Alternate Image Request Types)

This simple type specifies the kind of image that shall be requested from the application which hosts embedded object data for a linked object. This simple type allows any image format to be specified; however, the following values are reserved:

| Enumeration Value | Description                                                                                                    |
|-------------------|----------------------------------------------------------------------------------------------------------------|
| Bitmap            | Specifies that a bitmap should be requested.                                                                   |
| EnhancedMetaFile  | Specifies that a metafile (non-raster) image should be requested.                                              |
| Jpeg              | Specifies an image which should use the JPEG format.                                                           |
| Picture           | Specifies that any image format can be requested.<br>[Example: PNG or CGM (ISO/IEC 8632). <i>end example</i> ] |
| Png               | Specifies an image which should use the Portable Network Graphics format.                                      |

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Referenced By         |
|-----------------------|
| LinkType (§19.2.2.17) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_OLELinkType) is located in §A.6.2. *end note*]

### 19.2.3.20 ST\_OLEType ( Embedded Connection Type)

This simple type specifies whether the embedded object is included in the package (that is, embedded) or is stored outside the package (that is, linked).

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value       | Description      |
|-------------------------|------------------|
| Embed (Embedded Object) | Embedded object. |
| Link (Linked Object)    | Linked object.   |

| Referenced By               |
|-----------------------------|
| OLEObject@Type (§19.2.2.20) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_OLEType) is located in §A.6.2. *end note*]

### 19.2.3.21 ST\_OLEUpdateMode ( Embedded Object Update Method Type)

This simple type specifies how an embedded object is updated.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value                  | Description                                                                                                            |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Always (Server Application Update) | The object is updated whenever the server application using the embedded object indicates there is new data available. |
| OnCall (User Update)               | The object is updated when the user chooses to update it.                                                              |

| Referenced By                     |
|-----------------------------------|
| OLEObject@UpdateMode (§19.2.2.20) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_OLEUpdateMode) is located in §A.6.2. *end note*]

### 19.2.3.22 ST\_RType (Rule Type)

This simple type specifies types of rules.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value          | Description     |
|----------------------------|-----------------|
| align (Alignment Rule)     | Alignment rule. |
| arc (Arc Rule)             | Arc rule.       |
| callout (Callout Rule)     | Callout rule.   |
| connector (Connector Rule) | Connector rule. |

| Referenced By       |
|---------------------|
| r@type (§19.2.2.22) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_RType) is located in §A.6.2. *end note*]

### 19.2.3.23 ST\_ScreenSize (Screen Sizes Type)

This simple type specifies screen sizes.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value          | Description      |
|----------------------------|------------------|
| 1024,768 (1024x768 pixels) | 1024x768 pixels. |
| 1152,862 (1152x862 pixels) | 1152x862 pixels. |
| 544,376 (544x376 pixels)   | 544x376 pixels.  |
| 640,480 (640x480 pixels)   | 640x480 pixels.  |
| 720,512 (720x512 pixels)   | 720x512 pixels.  |
| 800,600 (800x600 pixels)   | 800x600 pixels.  |

| Referenced By                           |
|-----------------------------------------|
| background@targetscreensize (§19.1.2.2) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_ScreenSize) is located in §A.6.2. *end note*]

## 19.3 VML - WordprocessingML Drawing

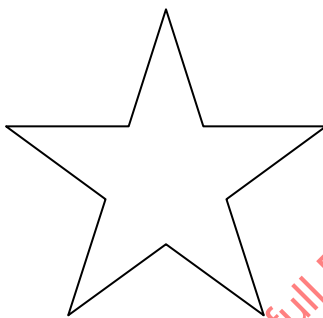
Within a WordprocessingML document, it is possible to include graphical VML objects. When these objects are present in a word processing document, it is necessary to include information about the object which is specific to their presence in a word processing document.

[Note: The VML format is a legacy format originally introduced with Office 2000 and is included and fully defined in ISO/IEC 29500 for backwards compatibility reasons. The DrawingML format is a newer and richer format created with the goal of eventually replacing any uses of VML in the Office Open XML formats. VML should be considered a transitional format included in Office Open XML for legacy reasons only and new applications that need a file format for drawings are strongly encouraged to use preferentially DrawingML. *end note*]

The VML WordprocessingML Drawing namespace acts in this capacity, specifying all information necessary to anchor and display VML objects within a word processing document.

All elements defined in this subclause shall only appear in a WordprocessingML document.

[Example: Consider a 5-point star added to a WordprocessingML document, for example:



This object allows surrounding text to wrap around its top and bottom, but not to either side, so this interaction with the surrounding document text (which is specific to a word processing document) is stored in the WordprocessingML Drawing namespace as follows:

```
<v:shape ... >
...
<wd:wrap wd:type="topAndBottom" />
</v:shape>
```

The wrap element specifies how surrounding WordprocessingML document content must wrap around the floating VML object - in this case, by wrapping to its top and bottom extents via the type attribute value of topAndBottom. *end example*

### 19.3.1 Table of Contents

This subclause is informative.

|               |                                        |            |
|---------------|----------------------------------------|------------|
| <b>19.3.2</b> | <b>Elements</b>                        | <b>839</b> |
| 19.3.2.1      | anchorlock (Anchor Location Is Locked) | 839        |
| 19.3.2.2      | borderbottom (Bottom Border)           | 839        |
| 19.3.2.3      | borderleft (Left Border)               | 841        |
| 19.3.2.4      | borderright (Right Border)             | 842        |
| 19.3.2.5      | bordertop (Top Border)                 | 844        |
| 19.3.2.6      | wrap (Text Wrapping)                   | 845        |
| <b>19.3.3</b> | <b>Simple Types</b>                    | <b>847</b> |



|          |                                                    |     |
|----------|----------------------------------------------------|-----|
| 19.3.3.1 | ST_BorderShadow (Border Shadow Type) .....         | 847 |
| 19.3.3.2 | ST_BorderType (Border Type) .....                  | 848 |
| 19.3.3.3 | ST_HorizontalAnchor (Horizontal Anchor Type) ..... | 851 |
| 19.3.3.4 | ST_VerticalAnchor (Vertical Anchor Type) .....     | 852 |
| 19.3.3.5 | ST_WrapSide (Text Wrapping Side).....              | 853 |
| 19.3.3.6 | ST_WrapType (Text Wrapping Type).....              | 853 |

**End of informative text.**

## 19.3.2 Elements

The following elements comprise the contents of the urn:schemas-microsoft-com:office:word namespace:

[*Note*: As the VML format is a format provided for backward compatibility, those VML elements defined in the same urn:schemas-microsoft-com:office:word namespace remain in that namespace as it is already used by millions of documents already using VML. *end note*]

### 19.3.2.1 anchorlock (Anchor Location Is Locked)

This element specifies that the anchor location for this object shall not be modified at runtime when an application edits the contents of this document. [*Guidance*: An application might have automatic behaviors which reposition the anchor for a VML object based on user interaction - for example, moving it from one page to another as needed. This element must tell applications not to perform any such behaviors. *end guidance*]

If this element is omitted, then the anchor shall not be locked for the parent VML object.

[*Example*: Consider a floating VML object which must have its anchor locked at the current location. This setting is specified as follows:

```
<wd:anchorLock/>
```

The anchorLock element's presence specifies that the VML object's current anchor location must not be changed by applications editing this content. *end example*].

| Parent Elements                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arc (§19.1.2.1); curve (§19.1.2.3); group (§19.1.2.7); image (§19.1.2.10); line (§19.1.2.12); oval (§19.1.2.13); polyline (§19.1.2.15); rect (§19.1.2.16); roundrect (§19.1.2.17); shape (§19.1.2.19); shapetype (§19.1.2.20) |

[*Note*: The W3C XML Schema definition of this element's content model ([CT\\_AnchorLock](#)) is located in §A.6.3. *end note*]

### 19.3.2.2 borderbottom (Bottom Border)

This element specifies the properties for the bottom border of a VML object.

| Parent Elements                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arc (§19.1.2.1); curve (§19.1.2.3); group (§19.1.2.7); image (§19.1.2.10); line (§19.1.2.12); oval (§19.1.2.13); polyline (§19.1.2.15); rect (§19.1.2.16); roundrect (§19.1.2.17); shape (§19.1.2.19); shapetype (§19.1.2.20) |

| Attributes             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| shadow (Border shadow) | <p>Specifies whether this border should be modified to create the appearance of a shadow.</p> <p>For the right and bottom borders, this is accomplished by duplicating the border below and right of the normal border location. For the left and top borders, this is accomplished by moving the border down and to the right of its original location.</p> <p>If this attribute is omitted, then the border is not given the shadow effect.</p> <p>[Example: Consider a top border which must appear with a shadow effect, resulting in the following content:</p> <pre>&lt;wd:bordertop wd:shadow="true" ... /&gt;</pre> <p>This element's shadow attribute is true, indicating that the shadow effect must be applied to the border. <i>end example</i></p> <p>The possible values for this attribute are defined by the ST_BorderShadow simple type (§19.3.3.1).</p> |
| type (Border Style)    | <p>Specifies the style of border used on this object.</p> <p>See the simple type definition for a description of each border style.</p> <p>[Example: Consider a left border resulting in the following WordprocessingML:</p> <pre>&lt;wd:borderleft wd:type="single" .../&gt;</pre> <p>This border's type is single, indicating that the border style is a single line. <i>end example</i></p> <p>The possible values for this attribute are defined by the ST_BorderType simple type (§19.3.3.2).</p>                                                                                                                                                                                                                                                                                                                                                                    |
| width (Border Width)   | <p>Specifies the width of the current border.</p> <p>The width of this border is specified in measurements of eighths of a point, with a minimum value of two (one-fourth of a point) and a maximum value of 96 (twelve points). Any values outside this range can be reassigned to a more appropriate value.</p> <p>[Example: Consider a document with a three point wide dashed line border on all sides, resulting in the following WordprocessingML markup:</p> <pre>&lt;wd:bordertop wd:type="dashed" wd:width="24" .../&gt;</pre>                                                                                                                                                                                                                                                                                                                                   |

| Attributes | Description                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <pre>&lt;wd:borderleft wd:type="dashed" wd:width="24" .../&gt; &lt;wd:borderbottom wd:type="dashed" wd:width="24" .../&gt; &lt;wd:borderright wd:type="dashed" wd:width="24" .../&gt;</pre> <p>The width attribute specifies the size in eighths of a point (24 eighths of a point = 3 points). <i>end example</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema <code>positiveInteger</code> datatype.</p> |

[Note: The W3C XML Schema definition of this element's content model (`CT_Border`) is located in §A.6.3. *end note*]

### 19.3.2.3 `borderleft` (Left Border)

This element represents the properties for the left border of a VML object.

| Parent Elements                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arc (§19.1.2.1); curve (§19.1.2.3); group (§19.1.2.7); image (§19.1.2.10); line (§19.1.2.12); oval (§19.1.2.13); polyline (§19.1.2.15); rect (§19.1.2.16); roundrect (§19.1.2.17); shape (§19.1.2.19); shapetype (§19.1.2.20) |

| Attributes             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| shadow (Border shadow) | <p>Specifies whether this border should be modified to create the appearance of a shadow.</p> <p>For the right and bottom borders, this is accomplished by duplicating the border below and right of the normal border location. For the left and top borders, this is accomplished by moving the border down and to the right of its original location.</p> <p>If this attribute is omitted, then the border is not given the shadow effect.</p> <p>[Example: Consider a top border which must appear with a shadow effect, resulting in the following content:</p> <pre>&lt;wd:bordertop wd:shadow="true" ... /&gt;</pre> <p>This element's shadow attribute is true, indicating that the shadow effect must be applied to the border. <i>end example</i></p> <p>The possible values for this attribute are defined by the <code>ST_BorderShadow</code> simple type (§19.3.3.1).</p> |
| type (Border Style)    | <p>Specifies the style of border used on this object.</p> <p>See the simple type definition for a description of each border style.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| Attributes           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | <p>[<i>Example:</i> Consider a left border resulting in the following WordprocessingML:</p> <pre data-bbox="456 352 1016 386">&lt;wd:borderleft wd:type="single" .../&gt;</pre> <p>This border's type is single, indicating that the border style is a single line. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_BorderType simple type (§19.3.3.2).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| width (Border Width) | <p>Specifies the width of the current border.</p> <p>The width of this border is specified in measurements of eighths of a point, with a minimum value of two (one-fourth of a point) and a maximum value of 96 (twelve points). Any values outside this range can be reassigned to a more appropriate value.</p> <p>[<i>Example:</i> Consider a document with a three point wide dashed line border on all sides, resulting in the following WordprocessingML markup:</p> <pre data-bbox="456 898 1273 1037">&lt;wd:bordertop wd:type="dashed" wd:width="24" .../&gt; &lt;wd:borderleft wd:type="dashed" wd:width="24" .../&gt; &lt;wd:borderbottom wd:type="dashed" wd:width="24" .../&gt; &lt;wd:boarderright wd:type="dashed" wd:width="24" .../&gt;</pre> <p>The width attribute specifies the size in eighths of a point (24 eighths of a point = 3 points). <i>end example</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema positiveInteger datatype.</p> |

[*Note:* The W3C XML Schema definition of this element's content model (CT\_Border) is located in §A.6.3. *end note*]

#### 19.3.2.4 borderRight (Right Border)

This element specifies the properties for the right border of a VML object.

| Parent Elements                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arc (§19.1.2.1); curve (§19.1.2.3); group (§19.1.2.7); image (§19.1.2.10); line (§19.1.2.12); oval (§19.1.2.13); polyline (§19.1.2.15); rect (§19.1.2.16); roundrect (§19.1.2.17); shape (§19.1.2.19); shapetype (§19.1.2.20) |

| Attributes             | Description                                                                            |
|------------------------|----------------------------------------------------------------------------------------|
| shadow (Border shadow) | Specifies whether this border should be modified to create the appearance of a shadow. |

| Attributes           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | <p>For the right and bottom borders, this is accomplished by duplicating the border below and right of the normal border location. For the left and top borders, this is accomplished by moving the border down and to the right of its original location.</p> <p>If this attribute is omitted, then the border is not given the shadow effect.</p> <p>[<i>Example</i>: Consider a top border which must appear with a shadow effect, resulting in the following content:</p> <pre>&lt;wd:bordertop wd:shadow="true" ... /&gt;</pre> <p>This element's shadow attribute is <code>true</code>, indicating that the shadow effect must be applied to the border. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_BorderShadow simple type (§19.3.3.1).</p>                                                                                                                                             |
| type (Border Style)  | <p>Specifies the style of border used on this object.</p> <p>See the simple type definition for a description of each border style.</p> <p>[<i>Example</i>: Consider a left border resulting in the following WordprocessingML:</p> <pre>&lt;wd:borderleft wd:type="single" .../&gt;</pre> <p>This border's type is <code>single</code>, indicating that the border style is a single line. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_BorderType simple type (§19.3.3.2).</p>                                                                                                                                                                                                                                                                                                                                                                                                                  |
| width (Border Width) | <p>Specifies the width of the current border.</p> <p>The width of this border is specified in measurements of eighths of a point, with a minimum value of two (one-fourth of a point) and a maximum value of 96 (twelve points). Any values outside this range can be reassigned to a more appropriate value.</p> <p>[<i>Example</i>: Consider a document with a three point wide dashed line border on all sides, resulting in the following WordprocessingML markup:</p> <pre>&lt;wd:bordertop wd:type="dashed" wd:width="24" .../&gt; &lt;wd:borderleft wd:type="dashed" wd:width="24" .../&gt; &lt;wd:borderbottom wd:type="dashed" wd:width="24" .../&gt; &lt;wd:boarderright wd:type="dashed" wd:width="24" .../&gt;</pre> <p>The width attribute specifies the size in eighths of a point (24 eighths of a point = 3 points). <i>end example</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema</p> |

| Attributes | Description               |
|------------|---------------------------|
|            | positiveInteger datatype. |

[Note: The W3C XML Schema definition of this element's content model (CT\_Border) is located in §A.6.3. *end note*]

### 19.3.2.5 bordertop (Top Border)

This element specifies the properties for the top border of a VML object.

| Parent Elements                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arc (§19.1.2.1); curve (§19.1.2.3); group (§19.1.2.7); image (§19.1.2.10); line (§19.1.2.12); oval (§19.1.2.13); polyline (§19.1.2.15); rect (§19.1.2.16); roundrect (§19.1.2.17); shape (§19.1.2.19); shapetype (§19.1.2.20) |

| Attributes             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| shadow (Border shadow) | <p>Specifies whether this border should be modified to create the appearance of a shadow.</p> <p>For the right and bottom borders, this is accomplished by duplicating the border below and right of the normal border location. For the left and top borders, this is accomplished by moving the border down and to the right of its original location.</p> <p>If this attribute is omitted, then the border is not given the shadow effect.</p> <p>[Example: Consider a top border which must appear with a shadow effect, resulting in the following content:</p> <pre>&lt;wd:bordertop wd:shadow="true" ... /&gt;</pre> <p>This element's shadow attribute is true, indicating that the shadow effect must be applied to the border. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_BorderShadow simple type (§19.3.3.1).</p> |
| type (Border Style)    | <p>Specifies the style of border used on this object.</p> <p>See the simple type definition for a description of each border style.</p> <p>[Example: Consider a left border resulting in the following WordprocessingML:</p> <pre>&lt;wd:borderleft wd:type="single" .../&gt;</pre> <p>This border's type is single, indicating that the border style is a single line. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_BorderType simple type</p>                                                                                                                                                                                                                                                                                                                                                                                 |

| Attributes           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | (§19.3.3.2).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| width (Border Width) | <p>Specifies the width of the current border.</p> <p>The width of this border is specified in measurements of eighths of a point, with a minimum value of two (one-fourth of a point) and a maximum value of 96 (twelve points). Any values outside this range can be reassigned to a more appropriate value.</p> <p>[<i>Example:</i> Consider a document with a three point wide dashed line border on all sides, resulting in the following WordprocessingML markup:</p> <pre>&lt;wd:bordertop wd:type="dashed" wd:width="24" .../&gt; &lt;wd:borderleft wd:type="dashed" wd:width="24" .../&gt; &lt;wd:borderbottom wd:type="dashed" wd:width="24" .../&gt; &lt;wd:borderright wd:type="dashed" wd:width="24" .../&gt;</pre> <p>The width attribute specifies the size in eighths of a point (24 eighths of a point = 3 points). <i>end example</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema <code>positiveInteger</code> datatype.</p> |

[*Note:* The W3C XML Schema definition of this element's content model (`CT_Border`) is located in §A.6.3. *end note*]

### 19.3.2.6 wrap (Text Wrapping)

This element specifies the type of text wrapping which should be allowed around the contents of this VML object.

If this element is omitted, then no text wrapping shall be performed (i.e. the object shall be presented in line with text).

[*Example:* Consider the following VML object:

```
<v:shape ... >
...
  <wd:wrap wd:type="square" />
</v:shape>
```

The wrap element specifies how surrounding WordprocessingML document content must wrap around the floating VML object - in this case, by wrapping around its extents in a square via the type attribute value of square. *end example*].

| Parent Elements                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arc (§19.1.2.1); curve (§19.1.2.3); group (§19.1.2.7); image (§19.1.2.10); line (§19.1.2.12); oval (§19.1.2.13); polyline (§19.1.2.15); rect (§19.1.2.16); roundrect (§19.1.2.17); shape (§19.1.2.19); shapetype (§19.1.2.20) |

| Attributes                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| anchorx (Horizontal Positioning Base) | <p>Specifies the base object from which the horizontal positioning of the object should be calculated.</p> <p>A VML object can be horizontally positioned relative to:</p> <ul style="list-style-type: none"> <li>• The vertical edge of the page before any runs of text (the left edge for left-to-right paragraphs, the right edge for right-to-left paragraphs)</li> <li>• The vertical edge of the text margin before any runs of text (the left edge for left-to-right paragraphs, the right edge for right-to-left paragraphs)</li> <li>• The vertical edge of the text in the paragraph containing the VML object</li> <li>• The position of anchor for the floating VML object in the text.</li> </ul> <p>If this attribute is omitted, then its value shall be assumed to be page.</p> <p>[Example: Consider a VML object which should be positioned relative to the page edges, which is specified as follows:</p> <pre>&lt;wd:wrap wd:anchorx="page" wd:anchory="page" /&gt;</pre> <p>The anchorx attribute specifies that horizontal anchoring is relative to the edge of the page. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_HorizontalAnchor simple type (§19.3.3.3):</p> |
| anchory (Vertical Positioning Base)   | <p>Specifies the base object from which the vertical positioning of the object should be calculated.</p> <p>A VML object can be vertically positioned relative to:</p> <ul style="list-style-type: none"> <li>• The horizontal top edge of the page</li> <li>• The horizontal edge of the top text margin before any runs of text</li> <li>• The horizontal top edge of line containing the VML object</li> <li>• The horizontal top edge of the paragraph containing the text.</li> </ul> <p>If this attribute is omitted, then its value shall be assumed to be page.</p> <p>[Example: Consider a VML object which should be positioned relative to the page edges, which is specified as follows:</p> <pre>&lt;wd:wrap wd:anchorx="page" wd:anchory="page" /&gt;</pre> <p>The anchory attribute specifies that horizontal anchoring is relative to the edge of the</p>                                                                                                                                                                                                                                                                                                                                                              |



| Attributes                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             | <p>page. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_VerticalAnchor simple type (§19.3.3.4).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <p>side (Wrapping side)</p> | <p>Specifies how text shall wrap around the object's left and right sides.</p> <p>[<i>Example</i>: Consider a floating DrawingML object which must allow text to wrap around its left side only. This setting is specified as follows:</p> <pre>&lt;wd:wrap side="left" ... /&gt;</pre> <p>The side attribute value of left specifies that text must only wrap around the left side of the object. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_WrapSide simple type (§19.3.3.5).</p>                                                                                                   |
| <p>type (Wrapping type)</p> | <p>Specifies the type of wrapping - see the simple type definition for a description of each type.</p> <p>[<i>Example</i>: Consider the following VML object:</p> <pre>&lt;v:shape ... &gt; ... &lt;wd:wrap wd:type="topAndBottom" /&gt; &lt;/v:shape&gt;</pre> <p>The wrap element specifies how surrounding WordprocessingML document content must wrap around the floating VML object - in this case, by wrapping around its top and bottom extents via the type attribute value of topAndBottom. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the ST_WrapType simple type (§19.3.3.6).</p> |

[*Note*: The W3C XML Schema definition of this element's content model (CT\_Wrap) is located in §A.6.3. *end note*]

### 19.3.3 Simple Types

The following additional simple type information in the urn:schemas-microsoft-com:office:word namespace is used for documents of a transitional conformance class.

#### 19.3.3.1 ST\_BorderShadow (Border Shadow Type)

This simple type specifies logical true and false values.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value | Description    |
|-------------------|----------------|
| f (False)         | Logical false. |
| false (False)     | Logical false. |
| t (True)          | Logical true.  |
| true (True)       | Logical true.  |

| Referenced By                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------|
| borderbottom@shadow (§19.3.2.2); borderleft@shadow (§19.3.2.3); borderright@shadow (§19.3.2.4); bordertop@shadow (§19.3.2.5) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_BorderShadow) is located in §A.6.3. *end note*]

### 19.3.3.2 ST\_BorderType (Border Type)

This type defines which types of borders are supported.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value                                                                   | Description                                                                                                                |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| dash (pecifies a line border consisting of a dashed line around the parent object.) | Specifies a line border consisting of a dashed line around the parent object.                                              |
| dashDotDot (Dash Dot Dot Border)                                                    | Specifies a line border consisting of a alternating dotted, dotted, dashed line around the parent object.                  |
| dashDotStroked (Stroked Dash Dot Border)                                            | Specifies a line border consisting of a line with a series of alternating thin and thick strokes around the parent object. |
| dashedSmall (Small Dash Border)                                                     | Specifies a line border consisting of a dashed line with small gaps around the parent object.                              |
| dot (Dotted Border)                                                                 | Specifies a line border consisting of a dotted line around the parent object.                                              |
| dotDash (Dot Dash Border)                                                           | Specifies a line border consisting of a alternating dotted and dashed line around the parent object.                       |
| double (Double Line Border)                                                         | Specifies a line border consisting of a double line around the parent object.                                              |
| doubleWave (Double Wavy Lines Border)                                               | Specifies a line border consisting of a double wavy line around the parent object.                                         |
| hairline (Hairline Border)                                                          | Specifies a line border consisting of a very thin line.                                                                    |
| HTMLInset (Inset Border)                                                            | Specifies a line border consisting of an inset set of lines around the parent object.                                      |

| Enumeration Value                                          | Description                                                                                                                                                                                                           |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                            | <p>[Example:</p>  <p>end example]</p>                                                                                               |
| HTMLOutset (Outset Border)                                 | <p>Specifies a line border consisting of an outset set of lines around the parent object.</p> <p>[Example:</p>  <p>end example]</p> |
| none (No Border)                                           | Specifies that no border shall be applied to the current item.                                                                                                                                                        |
| single (Single Line Border)                                | Specifies a line border consisting of a single line around the parent object.                                                                                                                                         |
| thick (Thick Line Border)                                  | Specifies a line border consisting of a single line around the parent object.                                                                                                                                         |
| thickBetweenThin (Thin-thick-thin Border)                  | Specifies a line border consisting of a thick line contained within a thin line with a medium sized intermediate gap around the parent object.                                                                        |
| thickBetweenThinLarge (Large thin-thick-thin Border)       | Specifies a line border consisting of a thin line contained within a thick line, contained within a thin line with a medium sized intermediate gap around the parent object.                                          |
| thickBetweenThinSmall (Small thin-thick-thin Lines Border) | Specifies a line border consisting of a thin line contained within a thick line, contained within a thin line with a small intermediate gap around the parent object.                                                 |
| thickThin (Thick Thin Line Border)                         | Specifies a line border consisting of a thick line contained within a thin line with a medium sized intermediate gap around the parent object.                                                                        |
| thickThinLarge (Thick Thin Large Gap Border)               | Specifies a line border consisting of a thick line contained within a thin line with a large sized intermediate gap around the parent object.                                                                         |
| thickThinSmall (Small thick-thin lines border)             | Specifies a line border consisting of a thick line contained within a thin line with a small intermediate gap around the parent object.                                                                               |
| thinThick (Thin Thick Line Border)                         | Specifies a line border consisting of a thin line contained within a thick line contained within a thick                                                                                                              |

| Enumeration Value                            | Description                                                                                                                                                                                                                                               |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                              | thin with a medium sized intermediate gap between each around the parent object.                                                                                                                                                                          |
| thinThickLarge (Thin Thick Large Gap Border) | Specifies a line border consisting of a thin line contained within a thick line contained within a thick thin with a large sized intermediate gap between each around the parent object.                                                                  |
| thinThickSmall (Thin Thick Small Gap Border) | Specifies a line border consisting of a thin line contained within a thick line contained within a thick thin with a small intermediate gap between each around the parent object.                                                                        |
| threeDEmboss (3D Embossed Border)            | Specifies a line border consisting of three staged gradient lines around the parent object, getting darker towards the object.<br><br>[Example:<br><br>end example]     |
| threeDEngrave (3D Engraved Border)           | Specifies a line border consisting of three staged gradient lines around the parent object, getting darker away from the object.<br><br>[Example:<br><br>end example] |
| triple (Triple Line Border)                  | Specifies a line border consisting of a triple line around the parent object.                                                                                                                                                                             |
| wave (Wavy Border)                           | Specifies a line border consisting of a wavy line around the parent object.<br><br>[Example:<br><br>end example]                                                      |

| Referenced By                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------|
| borderbottom@type (§19.3.2.2); borderleft@type (§19.3.2.3); borderright@type (§19.3.2.4); bordertop@type (§19.3.2.5) |

[Note: The W3C XML Schema definition of this simple type's content model (ST BorderType) is located in §A.6.3. *end note*]

### 19.3.3.3 ST\_HorizontalAnchor (Horizontal Anchor Type)

This simple type specifies the horizontal position to which the parent object has been anchored in the document. This anchor position shall be used as the base location to determine the final horizontal position of the object in the document.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value | Description                                                                                                                                                                                                                                                                                                                                |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| char (Character)  | Specifies that the parent object shall be horizontally anchored based on the position of the anchor within the text flow.                                                                                                                                                                                                                  |
| margin (Margin)   | Specifies that the parent object shall be horizontally anchored to the text margins.<br><br>This shall be used to specify that any horizontal positioning values shall be calculated with respect to the location of the text margin.                                                                                                      |
| page (Page)       | Specifies that the parent object shall be horizontally anchored to the page edge.<br><br>This shall be used to specify that any horizontal positioning values shall be calculated with respect to the location of the edge of the page.                                                                                                    |
| text (Text)       | Specifies that the parent object shall be horizontally anchored to the text extents.<br><br>This shall be used to specify that any horizontal positioning values shall be calculated with respect to the location of the edge of the text in the anchor paragraph (including text indentations on that paragraph within the text margins). |

| Referenced By            |
|--------------------------|
| wrap@anchorx (§19.3.2.6) |

[Note: The W3C XML Schema definition of this simple type's content model (ST HorizontalAnchor) is located in §A.6.3. *end note*]

#### 19.3.3.4 ST\_VerticalAnchor (Vertical Anchor Type)

This simple type specifies the vertical position to which the parent object has been anchored in the document. This anchor position shall be used as the base location to determine the final vertical position of the object in the document.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value | Description                                                                                                                                                                                                                                                                                            |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| line (Line)       | <p>Specifies that the parent object shall be vertically anchored to the line on which its anchor appears.</p> <p>This shall be used to specify that any vertical positioning values shall be calculated with respect to the location of the top edge of the anchor's line in the anchor paragraph.</p> |
| margin (Margin)   | <p>Specifies that the parent object shall be vertically anchored to the text margins.</p> <p>This shall be used to specify that any vertical positioning values shall be calculated with respect to the location of the text margin.</p>                                                               |
| page (Page)       | <p>Specifies that the parent object shall be vertically anchored to the page edge.</p> <p>This shall be used to specify that any vertical positioning values shall be calculated with respect to the location of the edge of the page.</p>                                                             |
| text (Text)       | <p>Specifies that the parent object shall be vertically anchored to the text extents.</p> <p>This shall be used to specify that any vertical positioning values shall be calculated with respect to the location of the top edge of the text in the anchor paragraph.</p>                              |

| Referenced By            |
|--------------------------|
| wrap@anchory (§19.3.2.6) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_VerticalAnchor) is located in §A.6.3. *end note*]

### 19.3.3.5 ST\_WrapSide (Text Wrapping Side)

This simple type defines which sides text can wrap around a VML object.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value      | Description                |
|------------------------|----------------------------|
| both (Both sides)      | Wrap text on both sides.   |
| largest (Largest side) | Wrap text on largest side. |
| left (Left side)       | Wrap text on left side.    |
| right (Right side)     | Wrap text on right side.   |

| Referenced By         |
|-----------------------|
| wrap@side (§19.3.2.6) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_WrapSide) is located in §A.6.3. end note]

### 19.3.3.6 ST\_WrapType (Text Wrapping Type)

This simple type specifies the type of text wrapping which shall be allowed around a VML object within a document.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value                      | Description                                                                                                                                                                                 |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| none (No wrapping)                     | Specifies that text shall not be allowed to wrap around the remaining space on each lines around this VML object.                                                                           |
| square (Square wrapping)               | Specifies that text shall be allowed to wrap around the remaining space on each line around this text frame in the document using a rectangle touching each of the object's furthest edges. |
| through (Through wrapping)             | Specifies that text shall be allowed to wrap around the remaining space on each line around this text frame in the document, including any holes in the object.                             |
| tight (Tight wrapping)                 | Specifies that text shall be allowed to tightly wrap around the remaining space on each line around this text frame in the document.                                                        |
| topAndBottom (Top and bottom wrapping) | Specifies that text shall not be allowed to wrap around the remaining space on each lines around the VML object.                                                                            |

| Enumeration Value | Description                                                                                                                          |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------|
|                   | Any text content shall therefore be placed on the next line following the object which does not intersect with the object's extents. |

| Referenced By         |
|-----------------------|
| wrap@type (§19.3.2.6) |

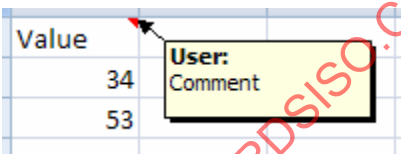
[Note: The W3C XML Schema definition of this simple type's content model (ST\_WrapType) is located in §A.6.3. *end note*]

### 19.4 VML - SpreadsheetML Drawing

It is possible to attach user interface controls, such as comments, combo boxes (dropdowns) and embedded controls, to a SpreadsheetML document. VML is used to define certain aspects of the control, such as size and visual appearance. Additional information describing the control shall also be included. The VML SpreadsheetML Drawing namespace provides the additional information necessary to define the object type, settings and behavior for the control.

[Note: The VML format is a legacy format originally introduced with Office 2000 and is included and fully defined in ISO/IEC 29500 for backwards compatibility reasons. The DrawingML format is a newer and richer format created with the goal of eventually replacing any uses of VML in the Office Open XML formats. VML should be considered a transitional format included in Office Open XML for legacy reasons only and new applications that need a file format for drawings are strongly encouraged to use preferentially DrawingML. *end note*]

[Example: Assume the comment below exists on a spreadsheet:



The following defines the additional information necessary to describe the comment. The ObjectType attribute describes the object as a comment. The Anchor element defines that its edges are anchored to the first and fourth rows and the second and fourth columns. The Row and Column elements indicate that it points to the cell in the first row, first column.



```

<x:ClientData ObjectType="Note">
  <x:MoveWithCells/>
  <x:SizeWithCells/>
  <x:Anchor>1, 13, 0, 12, 2, 52, 2, 10</x:Anchor>
  <x:AutoFill>False</x:AutoFill>
  <x:Row>0</x:Row>
  <x:Column>0</x:Column>
  <x:Visible/>
</x:ClientData>

```

This additional comment data exists inside the VML shape that defines the comment object:

```

<v:shape id="_x0000_s1025" type="#_x0000_t202" style='position:absolute;margin
left:57.75pt;margin-top:9pt;width:77.25pt;height:28.5pt;z-index:1;mso-wrap-
style:tight' fillcolor="#ffffe1" o:insetmode="auto">
  <v:fill color2="#ffffe1"/>
  <v:shadow on="t" color="black" obscured="t"/>
  <v:path o:connecttype="none"/>
  <v:textbox style='mso-direction-alt:auto'>
    <div style='text-align:left'></div>
  </v:textbox>
  <x:ClientData ObjectType="Note"> ... </x:ClientData>
</v:shape>

```

*end example]*

## 19.4.1 Table of Contents

This subclause is informative.

|               |                                         |            |
|---------------|-----------------------------------------|------------|
| <b>19.4.2</b> | <b>Elements</b>                         | <b>857</b> |
| 19.4.2.1      | Accel (Primary Keyboard Accelerator)    | 857        |
| 19.4.2.2      | Accel2 (Secondary Keyboard Accelerator) | 857        |
| 19.4.2.3      | Anchor (Anchor)                         | 858        |
| 19.4.2.4      | AutoFill (AutoFill)                     | 859        |
| 19.4.2.5      | AutoLine (AutoLine)                     | 859        |
| 19.4.2.6      | AutoPict (Automatically Size)           | 860        |
| 19.4.2.7      | AutoScale (Font AutoScale)              | 860        |
| 19.4.2.8      | Camera (Camera Tool)                    | 861        |
| 19.4.2.9      | Cancel (Cancel Button)                  | 862        |
| 19.4.2.10     | CF (Clipboard Format)                   | 862        |
| 19.4.2.11     | Checked (Checked)                       | 863        |
| 19.4.2.12     | ClientData (Attached Object Data)       | 863        |
| 19.4.2.13     | ColHidden (Comment's Column is Hidden)  | 866        |
| 19.4.2.14     | Colored (Dropdown Color Toggle)         | 867        |
| 19.4.2.15     | Column (Comment Column Target)          | 867        |
| 19.4.2.16     | DDE (Dynamic Data Exchange)             | 868        |

|           |                                                |     |
|-----------|------------------------------------------------|-----|
| 19.4.2.17 | Default (Default Button) .....                 | 868 |
| 19.4.2.18 | DefaultSize (Default Size Toggle) .....        | 869 |
| 19.4.2.19 | Disabled (Macro Disable Toggle) .....          | 869 |
| 19.4.2.20 | Dismiss (Dismiss Button) .....                 | 869 |
| 19.4.2.21 | DropLines (Dropdown Maximum Lines) .....       | 870 |
| 19.4.2.22 | DropStyle (Dropdown Style) .....               | 870 |
| 19.4.2.23 | Dx (Scroll Bar Width) .....                    | 871 |
| 19.4.2.24 | FirstButton (First Radio Button) .....         | 871 |
| 19.4.2.25 | FmlaGroup (Linked Formula - Group Box) .....   | 872 |
| 19.4.2.26 | FmlaLink (Linked Formula) .....                | 872 |
| 19.4.2.27 | FmlaMacro (Reference to Custom Function) ..... | 873 |
| 19.4.2.28 | FmlaPict (Camera Source Range) .....           | 873 |
| 19.4.2.29 | FmlaRange (List Items Source Range) .....      | 873 |
| 19.4.2.30 | FmlaTxbx (Text Formula) .....                  | 874 |
| 19.4.2.31 | Help (Help Button) .....                       | 874 |
| 19.4.2.32 | Horiz (Scroll Bar Orientation) .....           | 874 |
| 19.4.2.33 | Inc (Scroll Bar Increment) .....               | 875 |
| 19.4.2.34 | JustLastX (Far East Alignment Toggle) .....    | 875 |
| 19.4.2.35 | LCT (Callback Type) .....                      | 876 |
| 19.4.2.36 | ListItem (Non-linked List Item) .....          | 876 |
| 19.4.2.37 | Locked (Lock Toggle) .....                     | 877 |
| 19.4.2.38 | LockText (Text Lock) .....                     | 877 |
| 19.4.2.39 | MapOCX (Embedded Control) .....                | 877 |
| 19.4.2.40 | Max (Scroll Bar Maximum) .....                 | 878 |
| 19.4.2.41 | Min (Scroll Bar Minimum) .....                 | 878 |
| 19.4.2.42 | MoveWithCells (Move with Cells) .....          | 879 |
| 19.4.2.43 | MultiLine (Multi-line) .....                   | 879 |
| 19.4.2.44 | MultiSel (Multiple Selections) .....           | 880 |
| 19.4.2.45 | NoThreeD (Disable 3D) .....                    | 880 |
| 19.4.2.46 | NoThreeD2 (Disable 3D) .....                   | 880 |
| 19.4.2.47 | Page (Scroll Bar Page Increment) .....         | 881 |
| 19.4.2.48 | PrintObject (Print Toggle) .....               | 881 |
| 19.4.2.49 | RecalcAlways (Recalculation Toggle) .....      | 882 |
| 19.4.2.50 | Row (Comment Row Target) .....                 | 882 |
| 19.4.2.51 | RowHidden (Comment's Row is Hidden) .....      | 883 |
| 19.4.2.52 | ScriptExtended (HTML Script Attributes) .....  | 883 |
| 19.4.2.53 | ScriptLanguage (HTML Script Language) .....    | 883 |
| 19.4.2.54 | ScriptLocation (HTML Script Location) .....    | 884 |
| 19.4.2.55 | ScriptText (HTML Script Text) .....            | 885 |
| 19.4.2.56 | SecretEdit (Password Edit) .....               | 885 |
| 19.4.2.57 | Sel (Selected Entry) .....                     | 885 |
| 19.4.2.58 | SelType (Selection Type) .....                 | 886 |
| 19.4.2.59 | SizeWithCells (Resize with Cells) .....        | 886 |
| 19.4.2.60 | TextHAlign (Horizontal Text Alignment) .....   | 887 |
| 19.4.2.61 | TextVAlign (Vertical Text Alignment) .....     | 887 |
| 19.4.2.62 | UIObj (UI Object Toggle) .....                 | 888 |
| 19.4.2.63 | Val (Scroll bar position) .....                | 888 |
| 19.4.2.64 | ValidIds (Valid ID) .....                      | 889 |

|               |                                           |            |
|---------------|-------------------------------------------|------------|
| 19.4.2.65     | Visible (Comment Visibility Toggle) ..... | 889        |
| 19.4.2.66     | VScroll (Vertical Scroll) .....           | 889        |
| 19.4.2.67     | VTEdit (Validation Type) .....            | 890        |
| 19.4.2.68     | WidthMin (Minimum Width).....             | 891        |
| <b>19.4.3</b> | <b>Simple Types .....</b>                 | <b>891</b> |
| 19.4.3.1      | ST_CF (Clipboard Format Type) .....       | 891        |
| 19.4.3.2      | ST_ObjectType (Object Type) .....         | 892        |

**End of informative text.**

## 19.4.2 Elements

The following elements comprise the contents of the urn:schemas-microsoft-com:office:excel namespace:

[*Note:* As the VML format is a format provided for backward compatibility, those VML elements defined in the same urn:schemas-microsoft-com:office:excel namespace remain in that namespace as it is already used by millions of documents already using VML. *end note*]

### 19.4.2.1 Accel (Primary Keyboard Accelerator)

This element specifies the primary keyboard accelerator for an object. The value is the decimal value of the Unicode character corresponding to the accelerator key. This element is used for buttons, checkboxes, radio buttons and group boxes.

[*Example:* The primary accelerator key is 'A' (65 is the decimal value for 'A' (U+0041))]:

```
<x:ClientData ... >
  <x:Accel>65</x:Accel>
</x:ClientData>
```

*end example]*

The possible values for this element are defined by the W3C XML Schema integer datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

### 19.4.2.2 Accel2 (Secondary Keyboard Accelerator)

This element specifies the secondary keyboard accelerator for an object. The value is the decimal value of the Unicode character corresponding to the accelerator key. This element is used for buttons, checkboxes, radio buttons and group boxes.

[*Example:* The secondary accelerator key is 'A' (65 is the decimal value for 'A' (U+0041))]:

```
<x:ClientData>
  <x:Accel2>65</x:Accel2>
</x:ClientData>
```

*end example]*

The possible values for this element are defined by the W3C XML Schema integer datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

### 19.4.2.3 Anchor (Anchor)

This element specifies the anchor location for the object. This is a general-use element.

The value is a comma-separated list of data written out as: LeftColumn, LeftOffset, TopRow, TopOffset, RightColumn, RightOffset, BottomRow, BottomOffset.

| Value        | Description                                                                                                                                                                                  |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LeftColumn   | The left anchor column of the object (left-most column is 0). [ <i>Example:</i> An object whose left anchor was off of the third column has a LeftColumn value of 2. <i>end example</i> ]    |
| LeftOffset   | The offset of the object's left edge from the left edge of the left anchor column. This value is measured in pixels.                                                                         |
| TopRow       | The top anchor row of the object (top-most column is 0). [ <i>Example:</i> An object whose top anchor was off of the fifth row has a TopRow value of 4. <i>end example</i> ]                 |
| TopOffset    | The offset of the object's top edge from the top edge of the top anchor row. This value is measured in pixels.                                                                               |
| RightColumn  | The right anchor column of the object (left-most column is 0). [ <i>Example:</i> An object whose right anchor was off of the tenth column has a RightColumn value of 9. <i>end example</i> ] |
| RightOffset  | The offset of the object's right edge from the left edge of the right anchor column. This value is measured in pixels.                                                                       |
| BottomRow    | The bottom anchor row of the object (top-most column is 0). [ <i>Example:</i> An object whose bottom anchor was off of the tenth row has a BottomRow value of 9. <i>end example</i> ]        |
| BottomOffset | The offset of the object's bottom edge from the bottom edge of the bottom anchor row. This value is measured in pixels.                                                                      |

[*Example:* The left side of the object is 15 pixels to the right of the left edge of the second column. The top edge is 2 pixels below the upper edge of the first row. The right side is 15 pixels to the right of the left edge of the fourth column. The bottom edge is 16 pixels below the top of the fourth row.

```
<x:ClientData>
  <x:Anchor>1, 15, 0, 2, 3, 15, 3, 16</x:Anchor>
</x:ClientData>
```

*end example]*

The possible values for this element are defined by the W3C XML Schema string datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

#### 19.4.2.4 AutoFill (AutoFill)

This element specifies that the object's fill properties are automatically provided by the application and are not overridden with a specific fill color or style. [*Rationale*: An application can choose to display objects with certain visual properties that are appropriate to the application environment. *end rationale*] If this element is specified without a value, it is assumed to be true. This is a general-use element.

[*Example*:

```
<x:ClientData> ...
  <x:AutoFill>False</x:AutoFill>
</x:ClientData>
```

*end example]*

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[*Note*: The W3C XML Schema definition of this element's content model ([ST\\_TrueFalseBlank](#)) is located in §A.7.9. *end note*]

#### 19.4.2.5 AutoLine (AutoLine)

This element specifies that the object's line properties are automatically provided by the application and are not overridden with a specific line color, style, or width. [*Rationale*: An application can choose to display objects with certain visual properties that are appropriate to the application environment. *end rationale*] If this element is specified without a value, it is assumed to be true. This is a general-use element.

[*Example*:

```
<x:ClientData> ...
  <x:AutoLine>False</x:AutoLine>
</x:ClientData>
```

*end example]*

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[Note: The W3C XML Schema definition of this element's content model (ST\_TrueFalseBlank) is located in §A.7.9.  
*end note]*

19.4.2.6      **AutoPict (Automatically Size)**

This element specifies whether the object's aspect ratio is locked when rendered in different views by the application. If this element is specified without a value, it is assumed to be true. This is a general-use element for objects that use an image representation, denoted by the Pict value of ST\_ObjectType. These objects are: embedded objects, embedded controls, cameras and signature lines.

[Example:

```
<x:ClientData> ...  
  <x:AutoPict>True</x:AutoPict>  
</x:ClientData>
```

*end example]*

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[Note: The W3C XML Schema definition of this element's content model (ST\_TrueFalseBlank) is located in §A.7.9.  
*end note]*

19.4.2.7      **AutoScale (Font AutoScale)**

This element specifies whether the object's font is automatically scaled by the application when the object is resized. If this element is specified without a value, it is assumed to be true. This element is used for attached text. Attached text refers to a class of objects that have text associated with them. The following values defined by the ST\_ObjectType simple type are attached text objects: Button, Checkbox, Dialog, Edit, GBox, Label, Note and Radio.

[Example:

```
<x:ClientData> ...  
  <x:AutoScale>True</x:AutoScale>  
</x:ClientData>
```

*end example]*

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[*Note:* The W3C XML Schema definition of this element’s content model (ST\_TrueFalseBlank) is located in §A.7.9.  
*end note]*

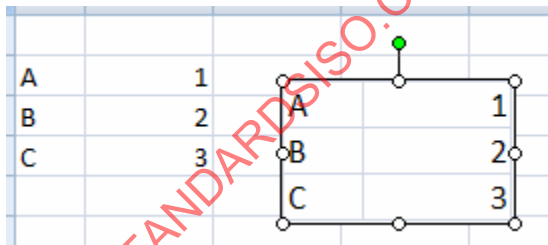
19.4.2.8 Camera (Camera Tool)

This element specifies that the object is a camera object. A camera object is a shape that is filled with a live view of a cell range in the same spreadsheet, including all applied styles. The cell range is defined by the fmlaPict element (§19.4.2.28), which shall be present. Shape properties such as the position and size of the camera object are defined by the shape. The shape shall be a rectangle. The view of the cell range is scaled vertically and horizontally to fill the rectangle exactly.

If this element is specified without a value, it is assumed to be true.

[*Example:*

```
<x:ClientData> ...  
  <x:FmlaPict>$A$2:$B$4</x:FmlaPict>  
  <x:Camera>True</x:Camera>  
</x:ClientData>
```



*end example]*

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[Note: The W3C XML Schema definition of this element's content model ([ST\\_TrueFalseBlank](#)) is located in §A.7.9. *end note*]

### 19.4.2.9 Cancel (Cancel Button)

This element specifies that the object is a cancel button. If this element is specified without a value, it is assumed to be true. This element is used for buttons.

[Example:

```
<x:ClientData> ...  
  <x:Cancel/>  
</x:ClientData>
```

*end example]*

The possible values for this element are defined by the [ST\\_TrueFalseBlank](#) simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[Note: The W3C XML Schema definition of this element's content model ([ST\\_TrueFalseBlank](#)) is located in §A.7.9. *end note*]

### 19.4.2.10 CF (Clipboard Format)

This element specifies the clipboard format used to render the object. This is a general-use element for objects that use an image representation, such as embedded objects, embedded controls, cameras and signature lines.

[Example:

```
<x:ClientData> ...  
  <x:CF>Pict</x:CF>  
</x:ClientData>
```

*end example]*

The possible values for this element are defined by the [ST\\_CF](#) simple type (§19.4.3.1).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[Note: The W3C XML Schema definition of this element's content model ([ST\\_CF](#)) is located in §A.6.4. *end note*]



### 19.4.2.11 Checked (Checked)

This element specifies that the checkbox is checked or the radio button is selected. This element is used for checkboxes and radio buttons. Permitted values are:

| Value | Description            |
|-------|------------------------|
| 0     | Unchecked / unselected |
| 1     | Checked / selected     |
| 2     | Mixed selection        |

[Example:

```
<x:ClientData> ...
  <x:Checked>2</x:Checked>
</x:ClientData>
```

end example]

The possible values for this element are defined by the W3C XML Schema integer datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

### 19.4.2.12 ClientData (Attached Object Data)

This element specifies data associated with objects attached to a spreadsheet. While this element might contain any of the child elements below, only certain combinations are meaningful. The ObjectType attribute determines the kind of object the element represents and which subset of child elements is appropriate. Relevant groups are identified for each child element.

[Example: The following defines additional information for a comment. Its edges are anchored to the first and fourth rows and the second and fourth columns. It points to the cell in the first row, first column.

```
<x:ClientData ObjectType="Note">
  <x:MoveWithCells/>
  <x:SizeWithCells/>
  <x:Anchor>1, 15, 0, 2, 3, 15, 3, 16</x:Anchor>
  <x:AutoFill>False</x:AutoFill>
  <x:Row>0</x:Row>
  <x:Column>0</x:Column>
  <x:Visible/>
</x:ClientData>
```

end example]

[*Example:* The following defines additional information for a radio button. It is the first in a series of radio buttons and selected by default. The accelerator key is 'A' (65 is the decimal value for 'A' (U+0041)) and it is linked to the cell at column A, row 1 of the first sheet.

```
<x:ClientData ObjectType=3D"Radio">
  <x:SizeWithCells/>
  <x:AutoFill>False</x:AutoFill>
  <x:AutoLine>False</x:AutoLine>
  <x:TextVAlign>Center</x:TextVAlign>
  <x:Checked>1</x:Checked>
  <x:Accel>65</x:Accel>
  <x:FmlaLink>Sheet1!$A$1</x:FmlaLink>
  <x:FirstButton/>
</x:ClientData>
```

*end example]*

| Parent Elements                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arc (§19.1.2.1); curve (§19.1.2.3); group (§19.1.2.7); image (§19.1.2.10); line (§19.1.2.12); oval (§19.1.2.13); polyline (§19.1.2.15); rect (§19.1.2.16); roundrect (§19.1.2.17); shape (§19.1.2.19); shapetype (§19.1.2.20) |

| Child Elements                          | Subclause  |
|-----------------------------------------|------------|
| Accel (Primary Keyboard Accelerator)    | §19.4.2.1  |
| Accel2 (Secondary Keyboard Accelerator) | §19.4.2.2  |
| Anchor (Anchor)                         | §19.4.2.3  |
| AutoFill (AutoFill)                     | §19.4.2.4  |
| AutoLine (AutoLine)                     | §19.4.2.5  |
| AutoPict (Automatically Size)           | §19.4.2.6  |
| AutoScale (Font AutoScale)              | §19.4.2.7  |
| Camera (Camera Tool)                    | §19.4.2.8  |
| Cancel (Cancel Button)                  | §19.4.2.9  |
| CF (Clipboard Format)                   | §19.4.2.10 |
| Checked (Checked)                       | §19.4.2.11 |
| ColHidden (Comment's Column is Hidden)  | §19.4.2.13 |
| Colored (Dropdown Color Toggle)         | §19.4.2.14 |
| Column (Comment Column Target)          | §19.4.2.15 |
| DDE (Dynamic Data Exchange)             | §19.4.2.16 |
| Default (Default Button)                | §19.4.2.17 |
| DefaultSize (Default Size Toggle)       | §19.4.2.18 |

| Child Elements                           | Subclause  |
|------------------------------------------|------------|
| Disabled (Macro Disable Toggle)          | §19.4.2.19 |
| Dismiss (Dismiss Button)                 | §19.4.2.20 |
| DropLines (Dropdown Maximum Lines)       | §19.4.2.21 |
| DropStyle (Dropdown Style)               | §19.4.2.22 |
| Dx (Scroll Bar Width)                    | §19.4.2.23 |
| FirstButton (First Radio Button)         | §19.4.2.24 |
| FmlaGroup (Linked Formula - Group Box)   | §19.4.2.25 |
| FmlaLink (Linked Formula)                | §19.4.2.26 |
| FmlaMacro (Reference to Custom Function) | §19.4.2.27 |
| FmlaPict (Camera Source Range)           | §19.4.2.28 |
| FmlaRange (List Items Source Range)      | §19.4.2.29 |
| FmlaTxbx (Text Formula)                  | §19.4.2.30 |
| Help (Help Button)                       | §19.4.2.31 |
| Horiz (Scroll Bar Orientation)           | §19.4.2.32 |
| Inc (Scroll Bar Increment)               | §19.4.2.33 |
| JustLastX (Far East Alignment Toggle)    | §19.4.2.34 |
| LCT (Callback Type)                      | §19.4.2.35 |
| ListItem (Non-linked List Item)          | §19.4.2.36 |
| Locked (Lock Toggle)                     | §19.4.2.37 |
| LockText (Text Lock)                     | §19.4.2.38 |
| MapOCX (Embedded Control)                | §19.4.2.39 |
| Max (Scroll Bar Maximum)                 | §19.4.2.40 |
| Min (Scroll Bar Minimum)                 | §19.4.2.41 |
| MoveWithCells (Move with Cells)          | §19.4.2.42 |
| MultiLine (Multi-line)                   | §19.4.2.43 |
| MultiSel (Multiple Selections)           | §19.4.2.44 |
| NoThreeD (Disable 3D)                    | §19.4.2.45 |
| NoThreeD2 (Disable 3D)                   | §19.4.2.46 |
| Page (Scroll Bar Page Increment)         | §19.4.2.47 |
| PrintObject (Print Toggle)               | §19.4.2.48 |
| RecalcAlways (Recalculation Toggle)      | §19.4.2.49 |
| Row (Comment Row Target)                 | §19.4.2.50 |
| RowHidden (Comment's Row is Hidden)      | §19.4.2.51 |
| ScriptExtended (HTML Script Attributes)  | §19.4.2.52 |

| Child Elements                         | Subclause  |
|----------------------------------------|------------|
| ScriptLanguage (HTML Script Language)  | §19.4.2.53 |
| ScriptLocation (HTML Script Location)  | §19.4.2.54 |
| ScriptText (HTML Script Text)          | §19.4.2.55 |
| SecretEdit (Password Edit)             | §19.4.2.56 |
| Sel (Selected Entry)                   | §19.4.2.57 |
| SelType (Selection Type)               | §19.4.2.58 |
| SizeWithCells (Resize with Cells)      | §19.4.2.59 |
| TextHAlign (Horizontal Text Alignment) | §19.4.2.60 |
| TextVAlign (Vertical Text Alignment)   | §19.4.2.61 |
| UIObj (UI Object Toggle)               | §19.4.2.62 |
| Val (Scroll bar position)              | §19.4.2.63 |
| ValidIds (Valid ID)                    | §19.4.2.64 |
| Visible (Comment Visibility Toggle)    | §19.4.2.65 |
| VScroll (Vertical Scroll)              | §19.4.2.66 |
| VTEdit (Validation Type)               | §19.4.2.67 |
| WidthMin (Minimum Width)               | §19.4.2.68 |

| Attributes               | Description                                                                                                                                                                                                                                                                  |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ObjectType (Object type) | <ul style="list-style-type: none"> <li>Specifies the kind of the object. Different sets of child elements are appropriate for different types of objects.</li> </ul> <p>The possible values for this attribute are defined by the ST_ObjectType simple type (§19.4.3.2).</p> |

[Note: The W3C XML Schema definition of this element's content model ([CT\\_ClientData](#)) is located in §A.6.4. *end note*]

#### 19.4.2.13 ColHidden (Comment's Column is Hidden)

This element specifies that the column of the cell to which this comment points is hidden. If this element is specified without a value, it is assumed to be true. This element is used for comments.

[Example:

```
<x:ClientData> ...
  <x:ColHidden>True</x:ColHidden>
</x:ClientData>
```

*end example*]

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[*Note:* The W3C XML Schema definition of this element's content model ([ST\\_TrueFalseBlank](#)) is located in §A.7.9.  
*end note*]

#### 19.4.2.14 Colored (Dropdown Color Toggle)

This element specifies that the dropdown is colored. If this element is specified without a value, it is assumed to be true. This element is used for dropdowns.

[*Example:*

```
<x:ClientData> ...
  <x:Colored>True</x:Colored>
</x:ClientData>
```

*end example*]

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[*Note:* The W3C XML Schema definition of this element's content model ([ST\\_TrueFalseBlank](#)) is located in §A.7.9.  
*end note*]

#### 19.4.2.15 Column (Comment Column Target)

This element specifies the column a comment points to. The column index is 0-based. This element is used for comments.

[*Example:*

```
<x:ClientData> ...
  <x:Column>0</x:Column>
</x:ClientData>
```

*end example*]

The possible values for this element are defined by the W3C XML Schema integer datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

#### 19.4.2.16 DDE (Dynamic Data Exchange)

This element specifies that the object is a DDE (Dynamic Data Exchange) link. If this element is specified without a value, it is assumed to be true. This is a general-use element.

[Example:

```
<x:ClientData> ...
  <x:DDE>True</x:DDE>
</x:ClientData>
```

end example]

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[Note: The W3C XML Schema definition of this element's content model ([ST\\_TrueFalseBlank](#)) is located in §A.7.9.  
end note]

#### 19.4.2.17 Default (Default Button)

This element specifies that the object is a default (OK) button. If this element is specified without a value, it is assumed to be true. This element is used for buttons.

[Example:

```
<x:ClientData> ...
  <x:Default>True</x:Default>
</x:ClientData>
```

end example]

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[Note: The W3C XML Schema definition of this element's content model ([ST\\_TrueFalseBlank](#)) is located in §A.7.9.  
end note]

### 19.4.2.18 DefaultSize (Default Size Toggle)

This element specifies that the object is at its default size. If this element is specified without a value, it is assumed to be true. This is a general-use element.

[Example:

```
<x:ClientData> ...
  <x:DefaultSize>True</x:DefaultSize>
</x:ClientData>
```

end example]

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[Note: The W3C XML Schema definition of this element's content model (ST\_TrueFalseBlank) is located in §A.7.9.  
end note]

### 19.4.2.19 Disabled (Macro Disable Toggle)

This element specifies that the object cannot run an attached macro. If this element is specified without a value, it is assumed to be true. This is a general-use element.

[Example:

```
<x:ClientData> ...
  <x:Disabled>True</x:Disabled>
</x:ClientData>
```

end example]

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[Note: The W3C XML Schema definition of this element's content model (ST\_TrueFalseBlank) is located in §A.7.9.  
end note]

### 19.4.2.20 Dismiss (Dismiss Button)

This element specifies that the object is a dismiss button. If this element is specified without a value, it is assumed to be true. This element is used for buttons.

[Example:

```
<x:ClientData> ...
  <x:Dismiss>True</x:Dismiss>
</x:ClientData>
```

end example]

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[Note: The W3C XML Schema definition of this element's content model (ST\_TrueFalseBlank) is located in §A.7.9.  
end note]

#### 19.4.2.21 DropLines (Dropdown Maximum Lines)

This element specifies the maximum number of lines in the dropdown before scrollbars are added. This element is used for dropdowns.

If this element is omitted, one line is shown.

[Example:

```
<x:ClientData> ...
  <x:DropLines>8</x:DropLines>
</x:ClientData>
```

end example]

The possible values for this element are defined by the W3C XML Schema integer datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

#### 19.4.2.22 DropStyle (Dropdown Style)

This element specifies the style of the dropdown. Allowed values are:

| Value     | Description                                                                           |
|-----------|---------------------------------------------------------------------------------------|
| Combo     | Standard combo box                                                                    |
| ComboEdit | Editable combo box                                                                    |
| Simple    | Standard combo box with only the dropdown button visible when the box is not expanded |



This element is used for dropdowns.

[Example:

```
<x:ClientData> ...
  <x:DropStyle>Combo</x:DropStyle>
</x:ClientData>
```

end example]

The possible values for this element are defined by the W3C XML Schema string datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

#### 19.4.2.23 Dx (Scroll Bar Width)

This element specifies the width of the scroll bar in screen pixels. This element is used for scroll bars and spinners. [Note: It is possible for other controls, such as combo boxes and list boxes, to use scroll bars and this element is permitted for those controls. end note]

[Example:

```
<x:ClientData> ...
  <x:Dx>16</x:Dx>
</x:ClientData>
```

end example]

The possible values for this element are defined by the W3C XML Schema integer datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

#### 19.4.2.24 FirstButton (First Radio Button)

This element specifies that the object is the first radio button in a set of radio buttons. If this element is specified without a value, it is assumed to be true. This element is used for radio buttons.

[Example:

```
<x:ClientData> ...
  <x:FirstButton>True</x:FirstButton>
</x:ClientData>
```

end example]

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[*Note:* The W3C XML Schema definition of this element’s content model ([ST\\_TrueFalseBlank](#)) is located in §A.7.9.  
*end note*]

**19.4.2.25 FmlaGroup (Linked Formula - Group Box)**

This element specifies the cell the object is linked to, using standard cell reference syntax. This element is used for group boxes. This overrides the FmlaLink for any radio buttons enclosed in the group box. The value in the linked cell and the index of the selected radio button are linked together. The formula syntax is described in Part 1, §18.17 of the SpreadsheetML reference.

[*Example:*

```
<x:ClientData> ...  
  <x:FmlaGroup>$A$1</x:FmlaGroup>  
</x:ClientData>
```

*end example*]

The possible values for this element are defined by the W3C XML Schema string datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

**19.4.2.26 FmlaLink (Linked Formula)**

This element specifies the cell the object is linked to, using standard cell reference syntax. This element is used for checkboxes, radio buttons, scroll bars, spinners, dropdowns and list boxes. The value in the linked cell and the index of the selected item in the object are linked together. This link is ignored if the control allows multiple selections. The formula syntax is described in Part 1, §18.17 of the SpreadsheetML reference.

[*Example:*

```
<x:ClientData> ...  
  <x:FmlaLink>$A$4</x:FmlaLink>  
</x:ClientData>
```

*end example*]

The possible values for this element are defined by the W3C XML Schema string datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

#### 19.4.2.27 FmlaMacro (Reference to Custom Function)

This element specifies the custom function associated with the object. [*Example*: A macro script, add-in function, and so on. *end example*]

This element applies to objects defined by all values of the ST\_ObjectType simple type, except: LineA, Note, RectA.

The format of this string shall be application-defined, and should be ignored if not understood.

[*Example*:

```
<x:ClientData> ...
  <x:FmlaMacro>Button1_Click()</x:FmlaMacro>
</x:ClientData>
```

*end example*]

The possible values for this element are defined by the W3C XML Schema string datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

#### 19.4.2.28 FmlaPict (Camera Source Range)

This element specifies the range of source data cells visible in the camera object (§19.4.2.8). This element is used for cameras. The formula syntax is described in Part 1, §18.17 of the SpreadsheetML reference.

This element is ignored if the Camera element is absent.

The possible values for this element are defined by the W3C XML Schema string datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

#### 19.4.2.29 FmlaRange (List Items Source Range)

This element specifies the range of source data cells used to populate the list box, using standard cell reference syntax. This element is used for list boxes. The formula syntax is described in Part 1, §18.17 of the SpreadsheetML reference.

[*Example*:

```
<x:ClientData> ...
  <x:FmlaRange>$A$1:$A$15</x:FmlaRange>
</x:ClientData>
```

*end example*]

The possible values for this element are defined by the W3C XML Schema string datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

19.4.2.30 FmlaTxbx (Text Formula)

This element defines the formula associated with the object's text. This element is used for attached text.

[Example:

```
<x:ClientData> ...  
  <x:FmlaTxbx>$D$9</x:FmlaTxbx>  
</x:ClientData>
```

end example]

The possible values for this element are defined by the W3C XML Schema string datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

19.4.2.31 Help (Help Button)

This element specifies that the object is a help button. If this element is specified without a value, it is assumed to be true. This element is used for buttons.

[Example:

```
<x:ClientData> ...  
  <x:Help>True</x:Help>  
</x:ClientData>
```

end example]

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[Note: The W3C XML Schema definition of this element's content model (ST\_TrueFalseBlank) is located in §A.7.9.  
end note]

19.4.2.32 Horiz (Scroll Bar Orientation)

This element specifies that the scroll bar is horizontal. If omitted, the scroll bar is vertical. If this element is specified without a value, it is assumed to be true. This element is used for scroll bars and spinners.

[Example:

```
<x:ClientData> ...
  <x:Horiz>True</x:Horiz>
</x:ClientData>
```

end example]

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[Note: The W3C XML Schema definition of this element's content model (ST\_TrueFalseBlank) is located in §A.7.9.  
end note]

#### 19.4.2.33 Inc (Scroll Bar Increment)

This element specifies the number of lines to move the scroll bar on an increment click. If omitted, the increment is 0. This element is used for scroll bars and spinners.

[Example:

```
<x:ClientData> ...
  <x:Inc>1</x:Inc>
</x:ClientData>
```

end example]

The possible values for this element are defined by the W3C XML Schema integer datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

#### 19.4.2.34 JustLastX (Far East Alignment Toggle)

This element specifies that Far East alignment is set for the last line in the text. Typically, justified text in Far East environments leaves the last line unjustified. Specifying this element also justifies the last line. If this element is specified without a value, it is assumed to be true. This element is used for attached text.

[Example:

```
<x:ClientData> ...
  <x:JustLastX>True</x:JustLastX>
</x:ClientData>
```

end example]

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[Note: The W3C XML Schema definition of this element’s content model ([ST\\_TrueFalseBlank](#)) is located in §A.7.9. end note]

19.4.2.35 LCT (Callback Type)

This element specifies the kind of list box callback. The application should use the callback to determine how to handle user actions on the list box. The only allowed value is Normal. This element is used for list boxes.

[Example:

```
<x:ClientData> ...  
  <x:LCT>Normal</x:LCT>  
</x:ClientData>
```

end example]

The possible values for this element are defined by the W3C XML Schema string datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

19.4.2.36 ListItem (Non-linked ListItem)

This element specifies a non-linked list item that shall be persisted with the list. This element is used for list boxes. [Rationale: This is a place for applications to store optional information associated with the list box. For example, an item to be shown in the list box that is not linked from another set of data. end rationale]

[Example:

```
<x:ClientData> ...  
  <x:ListItem>TheItem</x:ListItem>  
</x:ClientData>
```

end example]

The possible values for this element are defined by the W3C XML Schema string datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

### 19.4.2.37 Locked (Lock Toggle)

This element specifies that the object is locked when the sheet is protected. If omitted, the object is assumed to be locked. If this element is specified without a value, it is assumed to be true. This is a general-use element.

[Example:

```
<x:ClientData> ...
  <x:Locked>False</x:Locked>
</x:ClientData>
```

end example]

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[Note: The W3C XML Schema definition of this element's content model (ST\_TrueFalseBlank) is located in §A.7.9.  
end note]

### 19.4.2.38 LockText (Text Lock)

This element specifies that the object's text is locked. If omitted, the object's text is assumed to be locked. If this element is specified without a value, it is assumed to be true. This element is used for attached text.

[Example:

```
<x:ClientData> ...
  <x:LockText>False</x:LockText>
</x:ClientData>
```

end example]

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[Note: The W3C XML Schema definition of this element's content model (ST\_TrueFalseBlank) is located in §A.7.9.  
end note]

### 19.4.2.39 MapOCX (Embedded Control)

This element specifies that the object is an embedded control. If this element is specified without a value, it is assumed to be true. This element is used for all embedded controls.

[Example:

```
<x:ClientData>...
  <x:MapOCX>True</x:MapOCX>
</x:ClientData>
```

end example]

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[Note: The W3C XML Schema definition of this element's content model (ST\_TrueFalseBlank) is located in §A.7.9.  
end note]

#### 19.4.2.40 Max (Scroll Bar Maximum)

This element specifies the maximum scroll bar position as the index of the list item just above the item at the top of the view when the control is scrolled all the way down. The list indexes are 1-based. If omitted, the value is assumed to be that which allows the last item to be viewed when the control is scrolled all the way down. This element is used for scroll bars and spinners.

[Example: Item 21 is the first item visible in the list when the object is scrolled all the way down.

```
<x:ClientData> ...
  <x:Max>20</x:Max>
</x:ClientData>
```

end example]

The possible values for this element are defined by the W3C XML Schema integer datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

#### 19.4.2.41 Min (Scroll Bar Minimum)

This element specifies the minimum scroll bar position as the index of the list item just above the item at the top of the view when the control is scrolled all the way up, typically 0. The list indexes are 1-based. If omitted, the value is assumed to be 0. This element is used for scroll bars and spinners.

[Example: The first item in the list is visible when the object is scrolled all the way up:

```
<x:ClientData> ...
  <x:Min>0</x:Min>
</x:ClientData>
```



*end example]*

The possible values for this element are defined by the W3C XML Schema integer datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

#### 19.4.2.42 MoveWithCells (Move with Cells)

This element specifies that the object moves with its underlying cells. If this element is specified without a value, it is assumed to be true. This is a general-use element.

[Example:

```
<x:ClientData> ...
  <x:MoveWithCells>True</x:MoveWithCells>
</x:ClientData>
```

*end example]*

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[Note: The W3C XML Schema definition of this element's content model (ST\_TrueFalseBlank) is located in §A.7.9.  
*end note]*

#### 19.4.2.43 MultiLine (Multi-line)

This element specifies that the control is multiline. If this element is specified without a value, it is assumed to be true. This element is used for edit controls.

[Example:

```
<x:ClientData> ...
  <x:Multiline>True</x:Multiline>
</x:ClientData>
```

*end example]*

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[Note: The W3C XML Schema definition of this element's content model ([ST\\_TrueFalseBlank](#)) is located in §A.7.9.  
*end note*]

19.4.2.44      **MultiSel (Multiple Selections)**

This element specifies a comma-delimited list of selected items. This element overrides the Sel element (§19.4.2.57). This element is used for list boxes that allow multiple selections. See also the SelType element (§19.4.2.58).

[Example:

```
<x:ClientData> ...  
  <x:MultiSel>3, 5, 6</x:MultiSel>  
</x:ClientData>
```

*end example]*

The possible values for this element are defined by the W3C XML Schema string datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

19.4.2.45      **NoThreeD (Disable 3D)**

This element specifies that 3D effects are disabled. If this element is specified without a value, it is assumed to be true. This element is used for checkboxes, radio buttons, group boxes and scroll bars.

[Example:

```
<x:ClientData> ...  
  <x>NoThreeD>True</x>NoThreeD>  
</x:ClientData>
```

*end example]*

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[Note: The W3C XML Schema definition of this element's content model ([ST\\_TrueFalseBlank](#)) is located in §A.7.9.  
*end note*]

19.4.2.46      **NoThreeD2 (Disable 3D)**

This element specifies that 3D effects are disabled. If this element is specified without a value, it is assumed to be true. This element is used for dropdowns and list boxes.

[Example:

```
<x:ClientData> ...
  <x:NoThreeD2>True</x:NoThreeD2>
</x:ClientData>
```

end example]

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[Note: The W3C XML Schema definition of this element's content model (ST\_TrueFalseBlank) is located in §A.7.9.  
end note]

#### 19.4.2.47 Page (Scroll Bar Page Increment)

This element specifies the number of lines to move the scroll bar on a page click. This element is used for scroll bars and spinners.

[Example:

```
<x:ClientData> ...
  <x:Page>9</x:Page>
</x:ClientData>
```

end example]

The possible values for this element are defined by the W3C XML Schema integer datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

#### 19.4.2.48 PrintObject (Print Toggle)

This element specifies that the object is printed when the document is printed. If omitted, it is assumed the object prints when the document is printed. If this element is specified without a value, it is assumed to be true. This is a general-use element.

[Example:

```
<x:ClientData> ...
  <x:PrintObject>False</x:PrintObject>
</x:ClientData>
```

end example]

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[*Note:* The W3C XML Schema definition of this element’s content model ([ST\\_TrueFalseBlank](#)) is located in §A.7.9.  
*end note*]

19.4.2.49      [RecalcAlways \(Recalculation Toggle\)](#)

This element defines whether the object is always included in recalculation. If this element is specified without a value, it is assumed to be true. This is used by controls that reference cells in the spreadsheet to update themselves when the spreadsheet changes.

[*Example:*

```
<x:ClientData> ...  
  <x:RecalcAlways>True</x:RecalcAlways>  
</x:ClientData>
```

*end example*]

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[*Note:* The W3C XML Schema definition of this element’s content model ([ST\\_TrueFalseBlank](#)) is located in §A.7.9.  
*end note*]

19.4.2.50      [Row \(Comment Row Target\)](#)

This element specifies the row a comment points to. The row index is 0-based. This element is used for comments.

[*Example:*

```
<x:ClientData> ...  
  <x:Row>0</x:Row>  
</x:ClientData>
```

*end example*]

The possible values for this element are defined by the W3C XML Schema integer datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

#### 19.4.2.51 RowHidden (Comment's Row is Hidden)

This element specifies that the row of the cell to which this comment points is hidden. If this element is specified without a value, it is assumed to be true. This element is used for comments.

[Example:

```
<x:ClientData> ...
  <x:RowHidden>True</x:RowHidden>
</x:ClientData>
```

end example]

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[Note: The W3C XML Schema definition of this element's content model (ST\_TrueFalseBlank) is located in §A.7.9.  
end note]

#### 19.4.2.52 ScriptExtended (HTML Script Attributes)

This element specifies custom extended attributes associated with the HTML script tag. The language and id are not included in the extended attributes. If the document contains no HTML script, this element should be ignored.

[Example: The extended script attribute is " src="file.js"":

```
<x:ClientData> ...
  <x:ScriptExtended>src=&quot;file.js&quot;</x:ScriptExtended>
</x:ClientData>
```

end example]

The possible values for this element are defined by the W3C XML Schema string datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

#### 19.4.2.53 ScriptLanguage (HTML Script Language)

This element specifies the language of the custom function. If the document contains no HTML script, this element should be ignored. Allowed values are:

| Value | Description  |
|-------|--------------|
| 1     | Java         |
| 2     | Visual Basic |
| 3     | ASP          |
| 4     | Other        |

[Example:

```
<x:ClientData> ...
  <x:ScriptLanguage>1</x:ScriptLanguage>
</x:ClientData>
```

end example]

The possible values for this element are defined by the W3C XML Schema nonNegativeInteger datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

#### 19.4.2.54 ScriptLocation (HTML Script Location)

This element specifies the location of the custom function. If the document contains no HTML script, this element should be ignored. Allowed values are:

| Value | Description |
|-------|-------------|
| 1     | Head        |
| 2     | Body        |

[Example:

```
<x:ClientData> ...
  <x:ScriptLocation>2</x:ScriptLocation>
</x:ClientData>
```

end example]

The possible values for this element are defined by the W3C XML Schema nonNegativeInteger datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

#### 19.4.2.55 ScriptText (HTML Script Text)

This element specifies the script text (comment) associated with a block of HTML script in the document. If the document contains no HTML script, this element should be ignored.

[Example: The script text reads: "<!-- Comment -->":

```
<x:ClientData> ...
  <x:ScriptText>&lt;!-- Comment -->&gt;</x:ScriptText>
</x:ClientData>
```

*end example]*

The possible values for this element are defined by the W3C XML Schema string datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

#### 19.4.2.56 SecretEdit (Password Edit)

This element specifies that the object represents a password edit field. If this element is specified without a value, it is assumed to be true. This element is used for attached text.

[Example:

```
<x:ClientData> ...
  <x:SecretEdit>True</x:SecretEdit>
</x:ClientData>
```

*end example]*

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[Note: The W3C XML Schema definition of this element's content model ([ST\\_TrueFalseBlank](#)) is located in §A.7.9.  
*end note]*

#### 19.4.2.57 Sel (Selected Entry)

This element specifies the index of the selected item. The list indexes are 1-based. If omitted or set to a value of 0, no items are selected. This element is used for list boxes.

[Example:

```

<x:ClientData>...
  <x:Sel>1</x:Sel>
</x:ClientData>

```

*end example]*

The possible values for this element are defined by the W3C XML Schema integer datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

#### 19.4.2.58 SelType (Selection Type)

This element specifies the kind of selection for the list box. If omitted, the control is assumed to be Single.

Allowed values are:

| Value  | Description                                                                                      |
|--------|--------------------------------------------------------------------------------------------------|
| Single | The listbox shall only have one selected item.                                                   |
| Multi  | The listbox can have multiple items selected by clicking on each item.                           |
| Extend | The listbox can have multiple items selected by holding a control key and clicking on each item. |

This element is used for list boxes.

[Example:

```

<x:ClientData> ...
  <x:SelType>Single</x:SelType>
</x:ClientData>

```

*end example]*

The possible values for this element are defined by the W3C XML Schema string datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

#### 19.4.2.59 SizeWithCells (Resize with Cells)

This element specifies that the object resizes with its underlying cells. If this element is specified without a value, it is assumed to be true. This is a general-use element.

[Example:



```

<x:ClientData> ...
  <x:SizeWithCells>True</x:SizeWithCells>
</x:ClientData>

```

*end example]*

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[*Note:* The W3C XML Schema definition of this element's content model (ST\_TrueFalseBlank) is located in §A.7.9.  
*end note]*

#### 19.4.2.60 TextHAlign (Horizontal Text Alignment)

This element specifies the horizontal text alignment for the object. Permitted values are Left, Justify, Center, Right and Distributed. If omitted, the alignment is assumed to be Left. This element is used for attached text.

[*Example:*

```

<x:ClientData> ...
  <x:TextHAlign>Right</x:TextHAlign>
</x:ClientData>

```

*end example]*

The possible values for this element are defined by the W3C XML Schema string datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

#### 19.4.2.61 TextVAlign (Vertical Text Alignment)

This element specifies the horizontal text alignment for the object. Permitted values are Top, Justify, Center, Bottom and Distributed. If omitted, the alignment is assumed to be Top. This element is used for attached text.

[*Example:*

```

<x:ClientData> ...
  <x:TextVAlign>Center</x:TextVAlign>
</x:ClientData>

```

*end example]*

The possible values for this element are defined by the W3C XML Schema string datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

19.4.2.62 UIObj (UI Object Toggle)

This element defines whether the object is a UI object. If this element is specified without a value, it is assumed to be true. This is a general-use element.

[Example:

```
<x:ClientData> ...  
  <x:UIObj>True</x:UIObj>  
</x:ClientData>
```

end example]

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[Note: The W3C XML Schema definition of this element's content model (ST\_TrueFalseBlank) is located in §A.7.9.  
end note]

19.4.2.63 Val (Scroll bar position)

This element specifies the scroll bar position as the index of the list item just above the item at the top of the view, given the current scroll position. The list indexes are 1-based. If omitted, the value is assumed to be 0. This element is used for scroll bars and spinners.

[Example: The first list item (item 1) is just off the top of the view. The second list item is at the top of the view.

```
<x:ClientData> ...  
  <x:Val>1</x:Val>  
</x:ClientData>
```

end example]

The possible values for this element are defined by the W3C XML Schema integer datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

#### 19.4.2.64 ValidIds (Valid ID)

This element specifies that the ID of a linked object is correct. This is a general-use element.

[Example:

```
<x:ClientData> ...
  <x:ValidIds>True</x:ValidIds>
</x:ClientData>
```

end example]

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[Note: The W3C XML Schema definition of this element's content model (ST\_TrueFalseBlank) is located in §A.7.9.  
end note]

#### 19.4.2.65 Visible (Comment Visibility Toggle)

This element specifies that a comment is visible. If omitted, the comment is assumed to be invisible. If this element is specified without a value, it is assumed to be true. This element is used for comments.

[Example:

```
<x:ClientData> ...
  <x:Visible>True</x:Visible>
</x:ClientData>
```

end example]

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[Note: The W3C XML Schema definition of this element's content model (ST\_TrueFalseBlank) is located in §A.7.9.  
end note]

#### 19.4.2.66 VScroll (Vertical Scroll)

This element specifies that the object has a vertical scroll. If omitted, a vertical scroll is not used. If this element is specified without a value, it is assumed to be true. This element is used for edit controls.

[Example:

```
<x:ClientData> ...
  <x:VScroll>True</x:VScroll>
</x:ClientData>
```

end example]

The possible values for this element are defined by the ST\_TrueFalseBlank simple type (§20.1.2.6).

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

[Note: The W3C XML Schema definition of this element's content model (ST\_TrueFalseBlank) is located in §A.7.9.  
end note]

#### 19.4.2.67 VTEdit (Validation Type)

This element specifies the kind of semantic validation to use for data input to the control. If omitted, the value is assumed to be Text. Permitted values are:

| Value | Description |
|-------|-------------|
| 0     | Text        |
| 1     | Integer     |
| 2     | Number      |
| 3     | Reference   |
| 4     | Formula     |

This element is used for edit controls.

[Example:

```
<x:ClientData> ...
  <x:VTEdit>True</x:VTEdit>
</x:ClientData>
```

end example]

The possible values for this element are defined by the W3C XML Schema integer datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

### 19.4.2.68 WidthMin (Minimum Width)

This element specifies the smallest width allowed for the dropdown window in screen pixels. This element is used for list boxes and dropdowns.

[Example:

```
<x:ClientData ... > ...
  <x:WidthMin>78</x:WidthMin>
</x:ClientData>
```

end example]

The possible values for this element are defined by the W3C XML Schema integer datatype.

| Parent Elements         |
|-------------------------|
| ClientData (§19.4.2.12) |

## 19.4.3 Simple Types

The following additional simple type information in the urn:schemas-microsoft-com:office:excel namespace is used for documents of a transitional conformance class.

### 19.4.3.1 ST\_CF (Clipboard Format Type)

This simple type specifies the allowed clipboard formats. This simple type allows any image format to be specified; however, the following values are reserved:

| Value      | Description                                                                                                                                                                  |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bitmap     | Bitmap.                                                                                                                                                                      |
| Jpeg       | An image which should use the JPEG format.                                                                                                                                   |
| Pict       | Any picture format. [Example: SVG or JPEG. end example]                                                                                                                      |
| PictOld    | Any picture format, but preferably one that is more likely to be supported by legacy applications.                                                                           |
| PictPrint  | An image rendered using the default printer's settings. This is typically of higher resolution and scaled differently compared to a picture created for on-screen rendering. |
| PictScreen | An image rendered using screen settings. This is typically lower resolution than an image created for printing.                                                              |
| Png        | An image which should use the Portable Network Graphics format.                                                                                                              |

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Referenced By   |
|-----------------|
| CF (§19.4.2.10) |

[Note: The W3C XML Schema definition of this simple type's content model (ST CF) is located in §A.6.4. *end note*]

### 19.4.3.2 ST\_ObjectType (Object Type)

This simple type specifies the objects that a ClientData element can represent.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value          | Description                                        |
|----------------------------|----------------------------------------------------|
| Button (Pushbutton)        | A pushbutton control.                              |
| Checkbox (Checkbox)        | A checkbox control.                                |
| Dialog (Dialog)            | A dialog.                                          |
| Drop (Dropdown Box)        | A dropdown (combo box) control.                    |
| Edit (Editable Text Field) | An editable text field control.                    |
| GBox (Group Box)           | A group box control.                               |
| Group (Group)              | A group of objects, such as a group of checkboxes. |
| Label (Label)              | A label control.                                   |
| LineA (Auditing Line)      | A formula auditing arrow.                          |
| List (List Box)            | A list control.                                    |
| Movie (Movie)              | A movie object in Mac format.                      |
| Note (Comment)             | A comment.                                         |
| Pict (Image)               | A placeholder image.                               |
| Radio (Radio Button)       | A radio button control.                            |
| Rect (Plain Rectangle)     | A rectangle shape that is not a control.           |
| RectA (Auditing Rectangle) | A formula auditing rectangle.                      |
| Scroll (Scroll Bar)        | A scroll bar.                                      |
| Shape (Plain Shape)        | A general shape that is not a control.             |
| Spin (Spin Button)         | A spin button (spinner) control.                   |

| Referenced By                      |
|------------------------------------|
| ClientData@ObjectType (§19.4.2.12) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_ObjectType) is located in §A.6.4. *end note*]

## 19.5 VML - PresentationML Drawing

This section describes additional information attached to VML shapes that is specific to usage with PresentationML.

[Note: The VML format is a legacy format originally introduced with Office 2000 and is included and fully defined in ISO/IEC 29500 for backwards compatibility reasons. The DrawingML format is a newer and richer format created with the goal of eventually replacing any uses of VML in the Office Open XML formats. VML should be considered a transitional format included in Office Open XML for legacy reasons only and new applications that need a file format for drawings are strongly encouraged to use preferentially DrawingML. *end note*]

[Example: Assume the following annotation was drawn on a slide during a presentation and saved into the presentation:

- Bullet point

The red circle annotation is stored as a VML shape that is an ink annotation. For brevity, the specific path and ink data are omitted.

```
<v:shape id="_x0000_s1029" style='position:absolute;left:126pt;
top:327.375pt;width:27.625pt;height:24.75pt' coordorigin="4445,11549"
coordsize="973,874" path="..." filled="f" strokecolor="red"
strokeweight="1.5pt">
  <v:stroke endcap="round"/>
  <v:path shadowok="f" o:extrusionok="f" fillok="f" insetpenok="f"/>
  <o:lock v:ext="edit" rotation="t" aspectratio="t" verticies="t" text="t"
    shapetype="t"/>
  <o:ink i="..." annotation="t"/>
  <pvm1:iscomment/>
</v:shape>
```

*end example*

### 19.5.1 Table of Contents

This subclause is informative.

|                                                |            |
|------------------------------------------------|------------|
| <b>19.5.2 Elements .....</b>                   | <b>894</b> |
| 19.5.2.1 iscomment (Ink Annotation Flag) ..... | 894        |
| 19.5.2.2 textdata (VML Diagram Text) .....     | 894        |

End of informative text.

### 19.5.2 Elements

The following elements comprise the contents of the urn:schemas-microsoft-com:office:powerpoint namespace:

[*Note*: As the VML format is a format provided for backward compatibility, those VML elements defined in the same urn:schemas-microsoft-com:office:powerpoint namespace remain in that namespace as it is already used by millions of documents already using VML. *end note*]

#### 19.5.2.1 iscomment (Ink Annotation Flag)

Specifies that the object was created as an ink annotation. Default is false. If this element is specified without a value, it is assumed to be true. This element is only used with PresentationML. [*Rationale* This allows an application to treat annotation ink objects as any other annotation. For example, if annotations are hidden, the application can hide the ink object. *end rationale*]

[*Example*:

```
<v:shape ... >
  <o:ink ... annotation="true"/>
  <pvm1:iscomment/>
</v:shape>
```

• **Bullet point**

*end example*]

| Parent Elements    |
|--------------------|
| shape (§19.1.2.19) |

[*Note*: The W3C XML Schema definition of this element's content model (CT\_Empty) is located in §A.6.5. *end note*]

#### 19.5.2.2 textdata (VML Diagram Text)

This element specifies optional supplementary text information associated with a legacy VML shape that is a node in a VML diagram when it cannot otherwise be stored within the DrawingML framework.

[*Note*: An application could use this to preserve a specific diagram format for backward compatibility, but it is strongly recommended to upgrade all VML shapes to DrawingML shapes. *end note*]

| Parent Elements                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arc (§19.1.2.1); curve (§19.1.2.3); group (§19.1.2.7); image (§19.1.2.10); line (§19.1.2.12); oval (§19.1.2.13); polyline (§19.1.2.15); rect (§19.1.2.16); roundrect (§19.1.2.17); shape (§19.1.2.19); shapetype (§19.1.2.20) |



| Attributes          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id (Text Reference) | <p>Specifies the identifier that is used in conjunction with a corresponding relationship file to resolve the location of the diagram shape text.</p> <p>[Example:</p> <pre data-bbox="454 426 938 562">&lt;v:shape ... o:dgmnodekind="0" &gt;   &lt;v:textbox inset="0,0,0,0"/&gt;   &lt;pvm1:textdata id="rId1"/&gt; &lt;/v:shape&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p> |

[Note: The W3C XML Schema definition of this element's content model ([ST\\_Rel](#)) is located in §A.6.5. end note]

# 20. Shared MLs Reference Material

## 20.1 Shared Simple Types

### 20.1.1 Table of Contents

This subclause is informative.

|                                                                          |            |
|--------------------------------------------------------------------------|------------|
| <b>20.1.2 Simple Types</b>                                               | <b>896</b> |
| 20.1.2.1 ST_AlgClass (Cryptographic Algorithm Classes)                   | 896        |
| 20.1.2.2 ST_AlgType (Cryptographic Algorithm Types)                      | 897        |
| 20.1.2.3 ST_ColorType (Color Type)                                       | 898        |
| 20.1.2.4 ST_CryptProv (Cryptographic Provider Types)                     | 899        |
| 20.1.2.5 ST_TrueFalse (Boolean Value)                                    | 900        |
| 20.1.2.6 ST_TrueFalseBlank (Boolean Value with Blank [False] State)      | 903        |
| <b>20.4.1 Changed attribute for sources element (Part 1, §22.6.2.60)</b> | <b>904</b> |

End of informative text.

### 20.1.2 Simple Types

The following additional simple type information in the <http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes> namespace is used for documents of a transitional conformance class.

#### 20.1.2.1 ST\_AlgClass (Cryptographic Algorithm Classes)

This simple type specifies the possible classes of cryptographic algorithm used by protection. [*Note: The initial version of ISO/IEC 29500 only supports a single version - hash - but future versions may expand this as necessary. end note*]

[*Note: Omitting this attribute is logically equivalent to assigning it the value custom. end note*]

[*Example: Consider a WordprocessingML document with the following information stored in one of its protection elements:*

```
<... w:cryptAlgorithmClass="hash"
      w:cryptAlgorithmType="typeAny"
      w:cryptAlgorithmSid="1"
      w:hash="9oN7nWkCAyEZib1RomSJTjmPpCY=" />
```

The cryptAlgorithmClass attribute value of hash specifies that the algorithm used for the password is a hashing algorithm. *end example*]

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value         | Description                                                                                                                                        |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| custom (Custom Algorithm) | Specifies that a custom algorithm class, specified within the parent element's algIdExt attribute, generated the hash value.                       |
| hash (Hashing)            | Specifies that the algorithm is a hashing function, which creates a hash value for user-supplied input that is very difficult to reverse-engineer. |

| Referenced By                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| documentProtection@cryptAlgorithmClass (§14.7.2.3); modifyVerifier@cryptAlgorithmClass (§16.2.1.3); writeProtection@cryptAlgorithmClass (§14.7.2.5) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_AlgClass) is located in §A.7.9. *end note*]

### 20.1.2.2 ST\_AlgType (Cryptographic Algorithm Types)

This simple type specifies the possible values for the type of cryptographic algorithm used by protection. [Note: The initial version of ISO/IEC 29500 only supports a single type - typeAny - but future versions may expand this as necessary. *end note*]

[Note: Omitting this attribute is logically equivalent to assigning it the value custom. *end note*]

[Example: Consider a WordprocessingML document with the following information stored in one of its protection elements:

```
<... w:cryptAlgorithmClass="hash"
      w:cryptAlgorithmType="typeAny"
      w:cryptAlgorithmSid="1"
      w:hash="9oN7nWkCAyEZib1RomSJTjmPpCY=" />
```

The cryptAlgorithmType attribute value of typeAny specifies that any type of algorithm may have been used for the password. *end example*

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value             | Description                                                                                                                 |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| custom (Custom Algorithm)     | Specifies that a custom algorithm type, specified within the parent element's algIdExt attribute, generated the hash value. |
| typeAny (Any Predefined Type) | Specifies that one of the predefined cryptographic                                                                          |

| Enumeration Value | Description                                                                                          |
|-------------------|------------------------------------------------------------------------------------------------------|
|                   | algorithms, specified by the parent element's cryptAlgorithmSid attribute, generated the hash value. |

| Referenced By                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------|
| documentProtection@cryptAlgorithmType (§14.7.2.3); modifyVerifier@cryptAlgorithmType (§16.2.1.3); writeProtection@cryptAlgorithmType (§14.7.2.5) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_AlgType) is located in §A.7.9. *end note*]

20.1.2.3 ST\_ColorType (Color Type)

This simple type specifies a color. Colors are specified in one of three ways: named color, hexadecimal RGB or color palette entry. An optional index can be stored in square brackets following the color and a space. [Rationale: An application might store the color's index in a system color palette using this means. *end rationale*]

A named color is specified using the name of the color. The following named colors are supported:

- Black (#000000) 
- Silver (#C0C0C0) 
- Gray (#808080) 
- White (#FFFFFF) 
- Maroon (#800000) 
- Red (#FF0000) 
- Purple (#800080) 
- Fuchsia (#FF00FF) 
- Green (#008000) 
- Lime (#00FF00) 
- Olive (#808000) 
- Yellow (#FFFF00) 
- Navy (#000080) 
- Blue (#0000FF) 
- Teal (#008080) 
- Aqua (#00FFFF) 

[Example:  
  
    <... color="red" ... >  
  
*end example*]

Hexadecimal RGB is specified using a hash symbol (#) followed by six hexadecimal characters, where each pair represents the red, green and blue component of the color.

[Example:

```
< ... color="#5f2726" ... >
```

end example]

A color palette entry is specified using the name of the color in the palette.

[Example:

```
<... color="buttonFace [67]" ... >
```

end example]

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Referenced By                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arc@chromakey (§19.1.2.1); arc@fillcolor (§19.1.2.1); arc@strokecolor (§19.1.2.1); background@fillcolor (§19.1.2.2); bottom@color (§19.2.2.1); bottom@color2 (§19.2.2.1); colormenu@extrusioncolor (§19.2.2.4); colormenu@fillcolor (§19.2.2.4); colormenu@shadowcolor (§19.2.2.4); colormenu@strokecolor (§19.2.2.4); column@color (§19.2.2.6); column@color2 (§19.2.2.6); curve@chromakey (§19.1.2.3); curve@fillcolor (§19.1.2.3); curve@strokecolor (§19.1.2.3); extrusion@color (§19.2.2.11); fill@color (§19.1.2.5); fill@color2 (§19.1.2.5); group@fillcolor (§19.1.2.7); image@chromakey (§19.1.2.10); image@fillcolor (§19.1.2.10); image@strokecolor (§19.1.2.10); imagedata@chromakey (§19.1.2.11); imagedata@embosscolor (§19.1.2.11); imagedata@recolortarget (§19.1.2.11); left@color (§19.2.2.16); left@color2 (§19.2.2.16); line@chromakey (§19.1.2.12); line@fillcolor (§19.1.2.12); line@strokecolor (§19.1.2.12); oval@chromakey (§19.1.2.13); oval@fillcolor (§19.1.2.13); oval@strokecolor (§19.1.2.13); polyline@chromakey (§19.1.2.15); polyline@fillcolor (§19.1.2.15); polyline@strokecolor (§19.1.2.15); rect@chromakey (§19.1.2.16); rect@fillcolor (§19.1.2.16); rect@strokecolor (§19.1.2.16); right@color (§19.2.2.26); right@color2 (§19.2.2.26); roundrect@chromakey (§19.1.2.17); roundrect@fillcolor (§19.1.2.17); roundrect@strokecolor (§19.1.2.17); shadow@color (§19.1.2.18); shadow@color2 (§19.1.2.18); shape@chromakey (§19.1.2.19); shape@fillcolor (§19.1.2.19); shape@strokecolor (§19.1.2.19); shapedefaults@fillcolor (§19.2.2.28); shapedefaults@strokecolor (§19.2.2.28); shapetype@chromakey (§19.1.2.20); shapetype@fillcolor (§19.1.2.20); shapetype@strokecolor (§19.1.2.20); stroke@color (§19.1.2.21); stroke@color2 (§19.1.2.21); top@color (§19.2.2.32); top@color2 (§19.2.2.32) |

[Note: The W3C XML Schema definition of this simple type's content model ([ST\\_ColorType](#)) is located in §A.7.9. end note]

#### 20.1.2.4 ST\_CryptProv (Cryptographic Provider Types)

This simple type specifies the possible types of cryptographic providers which may be used.

[Note: Omitting this attribute is logically equivalent to assigning it the value custom. end note]

[*Example*: Consider a WordprocessingML document with the following information stored in one of its protection elements:

```
<... w:cryptProviderType="rsaAES"
      w:hash="9oN7nWkCAyEZib1RomSJTjmPpCY=" />
```

The cryptProviderType attribute value of rsaAES specifies that the cryptographic provider type shall be an Advanced Encryption Standard provider. *end example*

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value        | Description                                                                                                                 |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| custom (Custom Provider) | Specifies that a custom algorithm type, specified within the parent element's algIdExt attribute, generated the hash value. |
| rsaAES (AES Provider)    | Specifies that the provider shall support the Advanced Encryption Algorithm standard.                                       |
| rsaFull (Any Provider)   | Specifies that any suitable provider shall be used.                                                                         |

| Referenced By                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------|
| documentProtection@cryptProviderType (§14.7.2.3); modifyVerifier@cryptProviderType (§16.2.1.3); writeProtection@cryptProviderType (§14.7.2.5) |

[*Note*: The W3C XML Schema definition of this simple type's content model (ST\_CryptProv) is located in §A.7.9. *end note*]

#### 20.1.2.5 ST\_TrueFalse (Boolean Value)

This type specifies logical true and false.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value | Description    |
|-------------------|----------------|
| f (False)         | Logical false. |
| false (False)     | Logical false. |
| t (True)          | Logical true.  |
| true (True)       | Logical true.  |

| Referenced By                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arc@allowincell (§19.1.2.1); arc@allowoverlap (§19.1.2.1); arc@bullet (§19.1.2.1); arc@button (§19.1.2.1); arc@clip (§19.1.2.1); arc@cliptowrap (§19.1.2.1); arc@doubleclicknotify (§19.1.2.1); arc@filled (§19.1.2.1); |

## Referenced By

arc@forcedash (§19.1.2.1); arc@hr (§19.1.2.1); arc@hrnoshade (§19.1.2.1); arc@hrstd (§19.1.2.1); arc@insetpen (§19.1.2.1); arc@oleicon (§19.1.2.1); arc@oned (§19.1.2.1); arc@preferrelative (§19.1.2.1); arc@print (§19.1.2.1); arc@stroked (§19.1.2.1); arc@userdrawn (§19.1.2.1); arc@userhidden (§19.1.2.1); background@filled (§19.1.2.2); bottom@forcedash (§19.2.2.1); bottom@imagealignshape (§19.2.2.1); bottom@insetpen (§19.2.2.1); bottom@on (§19.2.2.1); callout@accentbar (§19.2.2.2); callout@dropauto (§19.2.2.2); callout@lengthspecified (§19.2.2.2); callout@minusx (§19.2.2.2); callout@minusy (§19.2.2.2); callout@on (§19.2.2.2); callout@textborder (§19.2.2.2); column@forcedash (§19.2.2.6); column@imagealignshape (§19.2.2.6); column@insetpen (§19.2.2.6); column@on (§19.2.2.6); curve@allowincell (§19.1.2.3); curve@allowoverlap (§19.1.2.3); curve@bullet (§19.1.2.3); curve@button (§19.1.2.3); curve@clip (§19.1.2.3); curve@cliptowrap (§19.1.2.3); curve@doubleclicknotify (§19.1.2.3); curve@filled (§19.1.2.3); curve@forcedash (§19.1.2.3); curve@hr (§19.1.2.3); curve@hrnoshade (§19.1.2.3); curve@hrstd (§19.1.2.3); curve@insetpen (§19.1.2.3); curve@oleicon (§19.1.2.3); curve@oned (§19.1.2.3); curve@preferrelative (§19.1.2.3); curve@print (§19.1.2.3); curve@stroked (§19.1.2.3); curve@userdrawn (§19.1.2.3); curve@userhidden (§19.1.2.3); diagram@autoformat (§19.2.2.8); diagram@autolayout (§19.2.2.8); diagram@reverse (§19.2.2.8); extrusion@autorotationcenter (§19.2.2.11); extrusion@lightface (§19.2.2.11); extrusion@lightharsh (§19.2.2.11); extrusion@lightharsh2 (§19.2.2.11); extrusion@lockrotationcenter (§19.2.2.11); extrusion@metal (§19.2.2.11); extrusion@on (§19.2.2.11); fill@alignshape (§19.1.2.5); fill@detectmouseclick (§19.1.2.5); fill@on (§19.1.2.5); fill@recolor (§19.1.2.5); fill@rotate (§19.1.2.5); group@allowincell (§19.1.2.7); group@allowoverlap (§19.1.2.7); group@bullet (§19.1.2.7); group@button (§19.1.2.7); group@doubleclicknotify (§19.1.2.7); group@filled (§19.1.2.7); group@hr (§19.1.2.7); group@hrnoshade (§19.1.2.7); group@hrstd (§19.1.2.7); group@oned (§19.1.2.7); group@print (§19.1.2.7); group@userdrawn (§19.1.2.7); group@userhidden (§19.1.2.7); h@invx (§19.1.2.8); h@invy (§19.1.2.8); image@allowincell (§19.1.2.10); image@allowoverlap (§19.1.2.10); image@bilevel (§19.1.2.10); image@bullet (§19.1.2.10); image@button (§19.1.2.10); image@clip (§19.1.2.10); image@cliptowrap (§19.1.2.10); image@doubleclicknotify (§19.1.2.10); image@filled (§19.1.2.10); image@forcedash (§19.1.2.10); image@grayscale (§19.1.2.10); image@hr (§19.1.2.10); image@hrnoshade (§19.1.2.10); image@hrstd (§19.1.2.10); image@insetpen (§19.1.2.10); image@oleicon (§19.1.2.10); image@oned (§19.1.2.10); image@preferrelative (§19.1.2.10); image@print (§19.1.2.10); image@stroked (§19.1.2.10); image@userdrawn (§19.1.2.10); image@userhidden (§19.1.2.10); imagedata@bilevel (§19.1.2.11); imagedata@detectmouseclick (§19.1.2.11); imagedata@grayscale (§19.1.2.11); ink@annotation (§19.2.2.15); left@forcedash (§19.2.2.16); left@imagealignshape (§19.2.2.16); left@insetpen (§19.2.2.16); left@on (§19.2.2.16); line@allowincell (§19.1.2.12); line@allowoverlap (§19.1.2.12); line@bullet (§19.1.2.12); line@button (§19.1.2.12); line@clip (§19.1.2.12); line@cliptowrap (§19.1.2.12); line@doubleclicknotify (§19.1.2.12); line@filled (§19.1.2.12); line@forcedash (§19.1.2.12); line@hr (§19.1.2.12); line@hrnoshade (§19.1.2.12); line@hrstd (§19.1.2.12); line@insetpen (§19.1.2.12); line@oleicon (§19.1.2.12); line@oned (§19.1.2.12); line@preferrelative (§19.1.2.12); line@print (§19.1.2.12); line@stroked (§19.1.2.12); line@userdrawn (§19.1.2.12); line@userhidden (§19.1.2.12); lock@adjusthandles (§19.2.2.18); lock@aspectratio (§19.2.2.18); lock@cropping (§19.2.2.18); lock@grouping (§19.2.2.18); lock@position (§19.2.2.18); lock@rotation (§19.2.2.18); lock@selection (§19.2.2.18); lock@shapetype (§19.2.2.18); lock@text (§19.2.2.18); lock@ungrouping (§19.2.2.18); lock@verticies (§19.2.2.18); oval@allowincell (§19.1.2.13); oval@allowoverlap (§19.1.2.13); oval@bullet (§19.1.2.13); oval@button (§19.1.2.13); oval@clip (§19.1.2.13); oval@cliptowrap (§19.1.2.13); oval@doubleclicknotify (§19.1.2.13); oval@filled (§19.1.2.13); oval@forcedash (§19.1.2.13); oval@hr (§19.1.2.13); oval@hrnoshade (§19.1.2.13); oval@hrstd (§19.1.2.13); oval@insetpen (§19.1.2.13); oval@oleicon (§19.1.2.13); oval@oned (§19.1.2.13); oval@preferrelative (§19.1.2.13); oval@print (§19.1.2.13); oval@stroked (§19.1.2.13); oval@userdrawn (§19.1.2.13); oval@userhidden (§19.1.2.13); path@arrowok (§19.1.2.14); path@extrusionok (§19.1.2.14); path@fillok



## Referenced By

(§19.1.2.14); path@gradientshapeok (§19.1.2.14); path@insetpenok (§19.1.2.14); path@shadowok (§19.1.2.14); path@strokeok (§19.1.2.14); path@textpathok (§19.1.2.14); polyline@allowincell (§19.1.2.15); polyline@allowoverlap (§19.1.2.15); polyline@bullet (§19.1.2.15); polyline@button (§19.1.2.15); polyline@clip (§19.1.2.15); polyline@cliptowrap (§19.1.2.15); polyline@doubleclicknotify (§19.1.2.15); polyline@filled (§19.1.2.15); polyline@forcedash (§19.1.2.15); polyline@hr (§19.1.2.15); polyline@hrnoshade (§19.1.2.15); polyline@hrstd (§19.1.2.15); polyline@insetpen (§19.1.2.15); polyline@oleicon (§19.1.2.15); polyline@oned (§19.1.2.15); polyline@preferrelative (§19.1.2.15); polyline@print (§19.1.2.15); polyline@stroked (§19.1.2.15); polyline@userdrawn (§19.1.2.15); polyline@userhidden (§19.1.2.15); rect@allowincell (§19.1.2.16); rect@allowoverlap (§19.1.2.16); rect@bullet (§19.1.2.16); rect@button (§19.1.2.16); rect@clip (§19.1.2.16); rect@cliptowrap (§19.1.2.16); rect@doubleclicknotify (§19.1.2.16); rect@filled (§19.1.2.16); rect@forcedash (§19.1.2.16); rect@hr (§19.1.2.16); rect@hrnoshade (§19.1.2.16); rect@hrstd (§19.1.2.16); rect@insetpen (§19.1.2.16); rect@oleicon (§19.1.2.16); rect@oned (§19.1.2.16); rect@preferrelative (§19.1.2.16); rect@print (§19.1.2.16); rect@stroked (§19.1.2.16); rect@userdrawn (§19.1.2.16); rect@userhidden (§19.1.2.16); right@forcedash (§19.2.2.26); right@imagealignshape (§19.2.2.26); right@insetpen (§19.2.2.26); right@on (§19.2.2.26); roundrect@allowincell (§19.1.2.17); roundrect@allowoverlap (§19.1.2.17); roundrect@bullet (§19.1.2.17); roundrect@button (§19.1.2.17); roundrect@clip (§19.1.2.17); roundrect@cliptowrap (§19.1.2.17); roundrect@doubleclicknotify (§19.1.2.17); roundrect@filled (§19.1.2.17); roundrect@forcedash (§19.1.2.17); roundrect@hr (§19.1.2.17); roundrect@hrnoshade (§19.1.2.17); roundrect@hrstd (§19.1.2.17); roundrect@insetpen (§19.1.2.17); roundrect@oleicon (§19.1.2.17); roundrect@oned (§19.1.2.17); roundrect@preferrelative (§19.1.2.17); roundrect@print (§19.1.2.17); roundrect@stroked (§19.1.2.17); roundrect@userdrawn (§19.1.2.17); roundrect@userhidden (§19.1.2.17); shadow@obscured (§19.1.2.18); shadow@on (§19.1.2.18); shape@allowincell (§19.1.2.19); shape@allowoverlap (§19.1.2.19); shape@bullet (§19.1.2.19); shape@button (§19.1.2.19); shape@clip (§19.1.2.19); shape@cliptowrap (§19.1.2.19); shape@doubleclicknotify (§19.1.2.19); shape@filled (§19.1.2.19); shape@forcedash (§19.1.2.19); shape@hr (§19.1.2.19); shape@hrnoshade (§19.1.2.19); shape@hrstd (§19.1.2.19); shape@insetpen (§19.1.2.19); shape@oleicon (§19.1.2.19); shape@oned (§19.1.2.19); shape@preferrelative (§19.1.2.19); shape@print (§19.1.2.19); shape@stroked (§19.1.2.19); shape@userdrawn (§19.1.2.19); shape@userhidden (§19.1.2.19); shapedefaults@allowincell (§19.2.2.28); shapedefaults@fill (§19.2.2.28); shapedefaults@stroke (§19.2.2.28); shapetype@allowincell (§19.1.2.20); shapetype@allowoverlap (§19.1.2.20); shapetype@bullet (§19.1.2.20); shapetype@button (§19.1.2.20); shapetype@clip (§19.1.2.20); shapetype@cliptowrap (§19.1.2.20); shapetype@doubleclicknotify (§19.1.2.20); shapetype@filled (§19.1.2.20); shapetype@forcedash (§19.1.2.20); shapetype@hr (§19.1.2.20); shapetype@hrnoshade (§19.1.2.20); shapetype@hrstd (§19.1.2.20); shapetype@insetpen (§19.1.2.20); shapetype@oleicon (§19.1.2.20); shapetype@oned (§19.1.2.20); shapetype@preferrelative (§19.1.2.20); shapetype@print (§19.1.2.20); shapetype@stroked (§19.1.2.20); shapetype@userdrawn (§19.1.2.20); shapetype@userhidden (§19.1.2.20); signatureline@allowcomments (§19.2.2.30); signatureline@issignatureline (§19.2.2.30); signatureline@showsigndate (§19.2.2.30); signatureline@signinginstructionsset (§19.2.2.30); skew@on (§19.2.2.31); stroke@forcedash (§19.1.2.21); stroke@imagealignshape (§19.1.2.21); stroke@insetpen (§19.1.2.21); stroke@on (§19.1.2.21); textbox@singleclick (§19.1.2.22); textpath@fitpath (§19.1.2.23); textpath@fitshape (§19.1.2.23); textpath@on (§19.1.2.23); textpath@trim (§19.1.2.23); textpath@xscale (§19.1.2.23); top@forcedash (§19.2.2.32); top@imagealignshape (§19.2.2.32); top@insetpen (§19.2.2.32); top@on (§19.2.2.32)



[Note: The W3C XML Schema definition of this simple type's content model (ST\_TrueFalse) is located in §A.7.9. *end note*]

### 20.1.2.6 ST\_TrueFalseBlank (Boolean Value with Blank [False] State)

This simple type specifies a boolean value with a third state, using a blank attribute, which specifies that the value be false.

This simple type's contents are a restriction of the W3C XML Schema string datatype.

| Enumeration Value       | Description    |
|-------------------------|----------------|
| (Blank – Logical False) | Logical false. |
| f (Logical False)       | Logical false. |
| false (Logical False)   | Logical false. |
| t (Logical True)        | Logical true.  |
| true (Logical True)     | Logical true.  |

| Referenced By                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| arc@ole (§19.1.2.1); AutoFill (§19.4.2.4); AutoLine (§19.4.2.5); AutoPict (§19.4.2.6); AutoScale (§19.4.2.7); Camera (§19.4.2.8); Cancel (§19.4.2.9); ColHidden (§19.4.2.13); Colored (§19.4.2.14); curve@ole (§19.1.2.3); DDE (§19.4.2.16); Default (§19.4.2.17); DefaultSize (§19.4.2.18); Disabled (§19.4.2.19); Dismiss (§19.4.2.20); FirstButton (§19.4.2.24); h@switch (§19.1.2.8); Help (§19.4.2.31); Horiz (§19.4.2.32); image@ole (§19.1.2.10); JustLastX (§19.4.2.34); line@ole (§19.1.2.12); Locked (§19.4.2.37); LockedField (§19.2.2.19); LockText (§19.4.2.38); MapOCX (§19.4.2.39); MoveWithCells (§19.4.2.42); MultiLine (§19.4.2.43); NoThreeD (§19.4.2.45); NoThreeD2 (§19.4.2.46); oval@ole (§19.1.2.13); polyline@ole (§19.1.2.15); PrintObject (§19.4.2.48); proxy@end (§19.2.2.21); proxy@start (§19.2.2.21); RecalcAlways (§19.4.2.49); rect@ole (§19.1.2.16); roundrect@ole (§19.1.2.17); RowHidden (§19.4.2.51); SecretEdit (§19.4.2.56); shape@ole (§19.1.2.19); shapetype@ole (§19.1.2.20); SizeWithCells (§19.4.2.59); UIObj (§19.4.2.62); ValidIds (§19.4.2.64); Visible (§19.4.2.65); VScroll (§19.4.2.66) |

[Note: The W3C XML Schema definition of this simple type's content model (ST\_TrueFalseBlank) is located in §A.7.9. *end note*]

## 20.2 Extended Properties (Part 1, §22.2)

When used in a document of the Transitional conformance class, extended properties are stored within an Extended File Properties part with a source relationship of <http://schemas.openxmlformats.org/officeDocument/2006/relationships/extended-properties>.

## 20.3 Custom Properties (Part 1, §22.3)

When used in a document of the Transitional conformance class, custom properties are stored within a Custom File Properties part with a source relationship of <http://schemas.openxmlformats.org/officeDocument/2006/relationships/custom-properties>.

## 20.4 Changed attributes

The following attributes, which are defined in subclauses within Part 1, §22, “Shared MLs Reference Material”, have different source relationships when used in documents of the Transitional conformance class:

### 20.4.1 Changed attribute for sources element (Part 1, §22.6.2.60)

| Attributes                        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SelectedStyle<br>(Selected Style) | <p>Specifies the filename of a file which can be used to format the bibliographies and citations within this document.</p> <p>If this file is of an unknown form or cannot be located, then the other attributes on this element can be used to determine the format to use.</p> <p>[Example:</p> <pre data-bbox="451 758 1464 827">&lt;b:Sources SelectedStyle="\APA.XSL" StyleName="APA"   URI="http://schemas.openxmlformats.org/bibliographicStyle/APA"&gt;</pre> <p>end example]</p> <p>The possible values for this attribute are defined by the ST_String simple type (Part 1, §22.9.2.13).</p> |

# Annex A.

## (normative)

### Schemas – W3C XML Schema

This Office Open XML specification includes a family of schemas defined using the W3C XML Schema 1.0 syntax. The normative definitions of these schemas follow below, and they also reside in an accompanying file named OfficeOpenXML-XMLSchema-Transitional.zip, which is distributed in electronic form.

#### A.1 WordprocessingML

This schema is available in the file wml.xsd.

```

1 <xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
2   xmlns:m="http://schemas.openxmlformats.org/officeDocument/2006/math"
3   xmlns:r="http://schemas.openxmlformats.org/officeDocument/2006/relationships"
4   xmlns:sl="http://schemas.openxmlformats.org/schemaLibrary/2006/main"
5   xmlns:wp="http://schemas.openxmlformats.org/drawingml/2006/wordprocessingDrawing"
6   xmlns="http://schemas.openxmlformats.org/wordprocessingml/2006/main"
7   xmlns:s="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes"
8   elementFormDefault="qualified" attributeFormDefault="qualified" blockDefault="#all"
9   targetNamespace="http://schemas.openxmlformats.org/wordprocessingml/2006/main">
10   <xsd:import namespace="http://schemas.openxmlformats.org/drawingml/2006/wordprocessingDrawing"
11     schemaLocation="dml-wordprocessingDrawing.xsd"/>
12   <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/math"
13     schemaLocation="shared-math.xsd"/>
14   <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/relationships"
15     schemaLocation="shared-relationshipReference.xsd"/>
16   <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes"
17     schemaLocation="shared-commonSimpleTypes.xsd"/>
18   <xsd:import namespace="http://schemas.openxmlformats.org/schemaLibrary/2006/main"
19     schemaLocation="shared-customXmlSchemaProperties.xsd"/>
20   <xsd:import namespace="http://www.w3.org/XML/1998/namespace"/>
21   <xsd:complexType name="CT_Empty"/>
22   <xsd:complexType name="CT_OnOff">
23     <xsd:attribute name="val" type="s:ST_OnOff"/>
24   </xsd:complexType>
25   <xsd:simpleType name="ST_LongHexNumber">
26     <xsd:restriction base="xsd:hexBinary">
27       <xsd:length value="4"/>
28     </xsd:restriction>
29   </xsd:simpleType>
30   <xsd:complexType name="CT_LongHexNumber">
31     <xsd:attribute name="val" type="ST_LongHexNumber" use="required"/>
32   </xsd:complexType>
33   <xsd:simpleType name="ST_ShortHexNumber">

```

```

34     <xsd:restriction base="xsd:hexBinary">
35         <xsd:length value="2"/>
36     </xsd:restriction>
37 </xsd:simpleType>
38 <xsd:simpleType name="ST_UcharHexNumber">
39     <xsd:restriction base="xsd:hexBinary">
40         <xsd:length value="1"/>
41     </xsd:restriction>
42 </xsd:simpleType>
43 <xsd:complexType name="CT_Charset">
44     <xsd:attribute name="val" type="ST_UcharHexNumber" use="required"/>
45     <xsd:attribute name="characterSet" type="s:ST_String" use="optional"/>
46 </xsd:complexType>
47 <xsd:simpleType name="ST_DecimalNumberOrPercent">
48     <xsd:union memberTypes="ST_UnqualifiedPercentage s:ST_Percentage"/>
49 </xsd:simpleType>
50 <xsd:simpleType name="ST_UnqualifiedPercentage">
51     <xsd:restriction base="xsd:integer"/>
52 </xsd:simpleType>
53 <xsd:simpleType name="ST_DecimalNumber">
54     <xsd:restriction base="xsd:integer"/>
55 </xsd:simpleType>
56 <xsd:complexType name="CT_DecimalNumber">
57     <xsd:attribute name="val" type="ST_DecimalNumber" use="required"/>
58 </xsd:complexType>
59 <xsd:complexType name="CT_UnsignedDecimalNumber">
60     <xsd:attribute name="val" type="s:ST_UnsignedDecimalNumber" use="required"/>
61 </xsd:complexType>
62 <xsd:complexType name="CT_DecimalNumberOrPercent">
63     <xsd:attribute name="val" type="ST_DecimalNumberOrPercent" use="required"/>
64 </xsd:complexType>
65 <xsd:complexType name="CT_TwipsMeasure">
66     <xsd:attribute name="val" type="s:ST_TwipsMeasure" use="required"/>
67 </xsd:complexType>
68 <xsd:simpleType name="ST_SignedTwipsMeasure">
69     <xsd:union memberTypes="xsd:integer s:ST_UniversalMeasure"/>
70 </xsd:simpleType>
71 <xsd:complexType name="CT_SignedTwipsMeasure">
72     <xsd:attribute name="val" type="ST_SignedTwipsMeasure" use="required"/>
73 </xsd:complexType>
74 <xsd:simpleType name="ST_PixelsMeasure">
75     <xsd:restriction base="s:ST_UnsignedDecimalNumber"/>
76 </xsd:simpleType>
77 <xsd:complexType name="CT_PixelsMeasure">
78     <xsd:attribute name="val" type="ST_PixelsMeasure" use="required"/>
79 </xsd:complexType>
80 <xsd:simpleType name="ST_HpsMeasure">
81     <xsd:union memberTypes="s:ST_UnsignedDecimalNumber s:ST_PositiveUniversalMeasure"/>
82 </xsd:simpleType>
83 <xsd:complexType name="CT_HpsMeasure">
84     <xsd:attribute name="val" type="ST_HpsMeasure" use="required"/>
85 </xsd:complexType>
86 <xsd:simpleType name="ST_SignedHpsMeasure">

```

```

87     <xsd:union memberTypes="xsd:integer s:ST_UniversalMeasure"/>
88 </xsd:simpleType>
89 <xsd:complexType name="CT_SignedHpsMeasure">
90     <xsd:attribute name="val" type="ST_SignedHpsMeasure" use="required"/>
91 </xsd:complexType>
92 <xsd:simpleType name="ST_DateTime">
93     <xsd:restriction base="xsd:dateTime"/>
94 </xsd:simpleType>
95 <xsd:simpleType name="ST_MacroName">
96     <xsd:restriction base="xsd:string">
97         <xsd:maxLength value="33"/>
98     </xsd:restriction>
99 </xsd:simpleType>
100 <xsd:complexType name="CT_MacroName">
101     <xsd:attribute name="val" use="required" type="ST_MacroName"/>
102 </xsd:complexType>
103 <xsd:simpleType name="ST_EighthPointMeasure">
104     <xsd:restriction base="s:ST_UnsignedDecimalNumber"/>
105 </xsd:simpleType>
106 <xsd:simpleType name="ST_PointMeasure">
107     <xsd:restriction base="s:ST_UnsignedDecimalNumber"/>
108 </xsd:simpleType>
109 <xsd:complexType name="CT_String">
110     <xsd:attribute name="val" type="s:ST_String" use="required"/>
111 </xsd:complexType>
112 <xsd:simpleType name="ST_TextScale">
113     <xsd:union memberTypes="ST_TextScalePercent ST_TextScaleDecimal"/>
114 </xsd:simpleType>
115 <xsd:simpleType name="ST_TextScalePercent">
116     <xsd:restriction base="xsd:string">
117         <xsd:pattern value="0*(600|([0-5]?[0-9]?[0-9]))%"/>
118     </xsd:restriction>
119 </xsd:simpleType>
120 <xsd:simpleType name="ST_TextScaleDecimal">
121     <xsd:restriction base="xsd:integer">
122         <xsd:minInclusive value="0"/>
123         <xsd:maxInclusive value="600"/>
124     </xsd:restriction>
125 </xsd:simpleType>
126 <xsd:complexType name="CT_TextScale">
127     <xsd:attribute name="val" type="ST_TextScale"/>
128 </xsd:complexType>
129 <xsd:simpleType name="ST_HighlightColor">
130     <xsd:restriction base="xsd:string">
131         <xsd:enumeration value="black"/>
132         <xsd:enumeration value="blue"/>
133         <xsd:enumeration value="cyan"/>
134         <xsd:enumeration value="green"/>
135         <xsd:enumeration value="magenta"/>
136         <xsd:enumeration value="red"/>
137         <xsd:enumeration value="yellow"/>
138         <xsd:enumeration value="white"/>
139         <xsd:enumeration value="darkBlue"/>

```

```

140     <xsd:enumeration value="darkCyan"/>
141     <xsd:enumeration value="darkGreen"/>
142     <xsd:enumeration value="darkMagenta"/>
143     <xsd:enumeration value="darkRed"/>
144     <xsd:enumeration value="darkYellow"/>
145     <xsd:enumeration value="darkGray"/>
146     <xsd:enumeration value="lightGray"/>
147     <xsd:enumeration value="none"/>
148   </xsd:restriction>
149 </xsd:simpleType>
150 <xsd:complexType name="CT_Highlight">
151   <xsd:attribute name="val" type="ST_HighlightColor" use="required"/>
152 </xsd:complexType>
153 <xsd:simpleType name="ST_HexColorAuto">
154   <xsd:restriction base="xsd:string">
155     <xsd:enumeration value="auto"/>
156   </xsd:restriction>
157 </xsd:simpleType>
158 <xsd:simpleType name="ST_HexColor">
159   <xsd:union memberTypes="ST_HexColorAuto s:ST_HexColorRGB"/>
160 </xsd:simpleType>
161 <xsd:complexType name="CT_Color">
162   <xsd:attribute name="val" type="ST_HexColor" use="required"/>
163   <xsd:attribute name="themeColor" type="ST_ThemeColor" use="optional"/>
164   <xsd:attribute name="themeTint" type="ST_UcharHexNumber" use="optional"/>
165   <xsd:attribute name="themeShade" type="ST_UcharHexNumber" use="optional"/>
166 </xsd:complexType>
167 <xsd:complexType name="CT_Lang">
168   <xsd:attribute name="val" type="s:ST_Lang" use="required"/>
169 </xsd:complexType>
170 <xsd:complexType name="CT_Guid">
171   <xsd:attribute name="val" type="s:ST_Guid"/>
172 </xsd:complexType>
173 <xsd:simpleType name="ST_Underline">
174   <xsd:restriction base="xsd:string">
175     <xsd:enumeration value="single"/>
176     <xsd:enumeration value="words"/>
177     <xsd:enumeration value="double"/>
178     <xsd:enumeration value="thick"/>
179     <xsd:enumeration value="dotted"/>
180     <xsd:enumeration value="dottedHeavy"/>
181     <xsd:enumeration value="dash"/>
182     <xsd:enumeration value="dashedHeavy"/>
183     <xsd:enumeration value="dashLong"/>
184     <xsd:enumeration value="dashLongHeavy"/>
185     <xsd:enumeration value="dotDash"/>
186     <xsd:enumeration value="dashDotHeavy"/>
187     <xsd:enumeration value="dotDotDash"/>
188     <xsd:enumeration value="dashDotDotHeavy"/>
189     <xsd:enumeration value="wave"/>
190     <xsd:enumeration value="wavyHeavy"/>
191     <xsd:enumeration value="wavyDouble"/>
192     <xsd:enumeration value="none"/>

```

```

193     </xsd:restriction>
194 </xsd:simpleType>
195 <xsd:complexType name="CT_Underline">
196     <xsd:attribute name="val" type="ST_Underline" use="optional"/>
197     <xsd:attribute name="color" type="ST_HexColor" use="optional"/>
198     <xsd:attribute name="themeColor" type="ST_ThemeColor" use="optional"/>
199     <xsd:attribute name="themeTint" type="ST_UcharHexNumber" use="optional"/>
200     <xsd:attribute name="themeShade" type="ST_UcharHexNumber" use="optional"/>
201 </xsd:complexType>
202 <xsd:simpleType name="ST_TextEffect">
203     <xsd:restriction base="xsd:string">
204         <xsd:enumeration value="blinkBackground"/>
205         <xsd:enumeration value="lights"/>
206         <xsd:enumeration value="antsBlack"/>
207         <xsd:enumeration value="antsRed"/>
208         <xsd:enumeration value="shimmer"/>
209         <xsd:enumeration value="sparkle"/>
210         <xsd:enumeration value="none"/>
211     </xsd:restriction>
212 </xsd:simpleType>
213 <xsd:complexType name="CT_TextEffect">
214     <xsd:attribute name="val" type="ST_TextEffect" use="required"/>
215 </xsd:complexType>
216 <xsd:simpleType name="ST_Border">
217     <xsd:restriction base="xsd:string">
218         <xsd:enumeration value="nil"/>
219         <xsd:enumeration value="none"/>
220         <xsd:enumeration value="single"/>
221         <xsd:enumeration value="thick"/>
222         <xsd:enumeration value="double"/>
223         <xsd:enumeration value="dotted"/>
224         <xsd:enumeration value="dashed"/>
225         <xsd:enumeration value="dotDash"/>
226         <xsd:enumeration value="dotDotDash"/>
227         <xsd:enumeration value="triple"/>
228         <xsd:enumeration value="thinThickSmallGap"/>
229         <xsd:enumeration value="thickThinSmallGap"/>
230         <xsd:enumeration value="thinThickThinSmallGap"/>
231         <xsd:enumeration value="thinThickMediumGap"/>
232         <xsd:enumeration value="thickThinMediumGap"/>
233         <xsd:enumeration value="thinThickThinMediumGap"/>
234         <xsd:enumeration value="thinThickLargeGap"/>
235         <xsd:enumeration value="thickThinLargeGap"/>
236         <xsd:enumeration value="thinThickThinLargeGap"/>
237         <xsd:enumeration value="wave"/>
238         <xsd:enumeration value="doubleWave"/>
239         <xsd:enumeration value="dashSmallGap"/>
240         <xsd:enumeration value="dashDotStroked"/>
241         <xsd:enumeration value="threeDEmboss"/>
242         <xsd:enumeration value="threeDEngrave"/>
243         <xsd:enumeration value="outset"/>
244         <xsd:enumeration value="inset"/>
245         <xsd:enumeration value="apples"/>

```



```

246 <xsd:enumeration value="archedScallops"/>
247 <xsd:enumeration value="babyPacifier"/>
248 <xsd:enumeration value="babyRattle"/>
249 <xsd:enumeration value="balloons3Colors"/>
250 <xsd:enumeration value="balloonsHotAir"/>
251 <xsd:enumeration value="basicBlackDashes"/>
252 <xsd:enumeration value="basicBlackDots"/>
253 <xsd:enumeration value="basicBlackSquares"/>
254 <xsd:enumeration value="basicThinLines"/>
255 <xsd:enumeration value="basicWhiteDashes"/>
256 <xsd:enumeration value="basicWhiteDots"/>
257 <xsd:enumeration value="basicWhiteSquares"/>
258 <xsd:enumeration value="basicWideInline"/>
259 <xsd:enumeration value="basicWideMidline"/>
260 <xsd:enumeration value="basicWideOutline"/>
261 <xsd:enumeration value="bats"/>
262 <xsd:enumeration value="birds"/>
263 <xsd:enumeration value="birdsFlight"/>
264 <xsd:enumeration value="cabins"/>
265 <xsd:enumeration value="cakeSlice"/>
266 <xsd:enumeration value="candyCorn"/>
267 <xsd:enumeration value="celticKnotwork"/>
268 <xsd:enumeration value="certificateBanner"/>
269 <xsd:enumeration value="chainLink"/>
270 <xsd:enumeration value="champagneBottle"/>
271 <xsd:enumeration value="checkedBarBlack"/>
272 <xsd:enumeration value="checkedBarColor"/>
273 <xsd:enumeration value="checkered"/>
274 <xsd:enumeration value="christmasTree"/>
275 <xsd:enumeration value="circlesLines"/>
276 <xsd:enumeration value="circlesRectangles"/>
277 <xsd:enumeration value="classicalWave"/>
278 <xsd:enumeration value="clocks"/>
279 <xsd:enumeration value="compass"/>
280 <xsd:enumeration value="confetti"/>
281 <xsd:enumeration value="confettiGrays"/>
282 <xsd:enumeration value="confettiOutline"/>
283 <xsd:enumeration value="confettiStreamers"/>
284 <xsd:enumeration value="confettiWhite"/>
285 <xsd:enumeration value="cornerTriangles"/>
286 <xsd:enumeration value="couponCutoutDashes"/>
287 <xsd:enumeration value="couponCutoutDots"/>
288 <xsd:enumeration value="crazyMaze"/>
289 <xsd:enumeration value="creaturesButterfly"/>
290 <xsd:enumeration value="creaturesFish"/>
291 <xsd:enumeration value="creaturesInsects"/>
292 <xsd:enumeration value="creaturesLadyBug"/>
293 <xsd:enumeration value="crossStitch"/>
294 <xsd:enumeration value="cup"/>
295 <xsd:enumeration value="decoArch"/>
296 <xsd:enumeration value="decoArchColor"/>
297 <xsd:enumeration value="decoBlocks"/>
298 <xsd:enumeration value="diamondsGray"/>

```



```

299     <xsd:enumeration value="doubleD"/>
300     <xsd:enumeration value="doubleDiamonds"/>
301     <xsd:enumeration value="earth1"/>
302     <xsd:enumeration value="earth2"/>
303     <xsd:enumeration value="earth3"/>
304     <xsd:enumeration value="eclipsingSquares1"/>
305     <xsd:enumeration value="eclipsingSquares2"/>
306     <xsd:enumeration value="eggsBlack"/>
307     <xsd:enumeration value="fans"/>
308     <xsd:enumeration value="film"/>
309     <xsd:enumeration value="firecrackers"/>
310     <xsd:enumeration value="flowersBlockPrint"/>
311     <xsd:enumeration value="flowersDaisies"/>
312     <xsd:enumeration value="flowersModern1"/>
313     <xsd:enumeration value="flowersModern2"/>
314     <xsd:enumeration value="flowersPansy"/>
315     <xsd:enumeration value="flowersRedRose"/>
316     <xsd:enumeration value="flowersRoses"/>
317     <xsd:enumeration value="flowersTeacup"/>
318     <xsd:enumeration value="flowersTiny"/>
319     <xsd:enumeration value="gems"/>
320     <xsd:enumeration value="gingerbreadMan"/>
321     <xsd:enumeration value="gradient"/>
322     <xsd:enumeration value="handmade1"/>
323     <xsd:enumeration value="handmade2"/>
324     <xsd:enumeration value="heartBalloon"/>
325     <xsd:enumeration value="heartGray"/>
326     <xsd:enumeration value="hearts"/>
327     <xsd:enumeration value="heebieJeebies"/>
328     <xsd:enumeration value="holly"/>
329     <xsd:enumeration value="houseFunky"/>
330     <xsd:enumeration value="hypnotic"/>
331     <xsd:enumeration value="iceCreamCones"/>
332     <xsd:enumeration value="lightBulb"/>
333     <xsd:enumeration value="lightning1"/>
334     <xsd:enumeration value="lightning2"/>
335     <xsd:enumeration value="mapPins"/>
336     <xsd:enumeration value="mapleLeaf"/>
337     <xsd:enumeration value="mapleMuffins"/>
338     <xsd:enumeration value="marquee"/>
339     <xsd:enumeration value="marqueeToothed"/>
340     <xsd:enumeration value="moons"/>
341     <xsd:enumeration value="mosaic"/>
342     <xsd:enumeration value="musicNotes"/>
343     <xsd:enumeration value="northwest"/>
344     <xsd:enumeration value="ovals"/>
345     <xsd:enumeration value="packages"/>
346     <xsd:enumeration value="palmsBlack"/>
347     <xsd:enumeration value="palmsColor"/>
348     <xsd:enumeration value="paperClips"/>
349     <xsd:enumeration value="papyrus"/>
350     <xsd:enumeration value="partyFavor"/>
351     <xsd:enumeration value="partyGlass"/>

```

```

352     <xsd:enumeration value="pencils"/>
353     <xsd:enumeration value="people"/>
354     <xsd:enumeration value="peopleWaving"/>
355     <xsd:enumeration value="peopleHats"/>
356     <xsd:enumeration value="poinsettias"/>
357     <xsd:enumeration value="postageStamp"/>
358     <xsd:enumeration value="pumpkin1"/>
359     <xsd:enumeration value="pushPinNote2"/>
360     <xsd:enumeration value="pushPinNote1"/>
361     <xsd:enumeration value="pyramids"/>
362     <xsd:enumeration value="pyramidsAbove"/>
363     <xsd:enumeration value="quadrants"/>
364     <xsd:enumeration value="rings"/>
365     <xsd:enumeration value="safari"/>
366     <xsd:enumeration value="sawtooth"/>
367     <xsd:enumeration value="sawtoothGray"/>
368     <xsd:enumeration value="scaredCat"/>
369     <xsd:enumeration value="seattle"/>
370     <xsd:enumeration value="shadowedSquares"/>
371     <xsd:enumeration value="sharksTeeth"/>
372     <xsd:enumeration value="shorebirdTracks"/>
373     <xsd:enumeration value="skyrocket"/>
374     <xsd:enumeration value="snowflakeFancy"/>
375     <xsd:enumeration value="snowflakes"/>
376     <xsd:enumeration value="sombbrero"/>
377     <xsd:enumeration value="southwest"/>
378     <xsd:enumeration value="stars"/>
379     <xsd:enumeration value="starsTop"/>
380     <xsd:enumeration value="stars3d"/>
381     <xsd:enumeration value="starsBlack"/>
382     <xsd:enumeration value="starsShadowed"/>
383     <xsd:enumeration value="sun"/>
384     <xsd:enumeration value="swirligig"/>
385     <xsd:enumeration value="tornPaper"/>
386     <xsd:enumeration value="tornPaperBlack"/>
387     <xsd:enumeration value="trees"/>
388     <xsd:enumeration value="triangleParty"/>
389     <xsd:enumeration value="triangles"/>
390     <xsd:enumeration value="triangle1"/>
391     <xsd:enumeration value="triangle2"/>
392     <xsd:enumeration value="triangleCircle1"/>
393     <xsd:enumeration value="triangleCircle2"/>
394     <xsd:enumeration value="shapes1"/>
395     <xsd:enumeration value="shapes2"/>
396     <xsd:enumeration value="twistedLines1"/>
397     <xsd:enumeration value="twistedLines2"/>
398     <xsd:enumeration value="vine"/>
399     <xsd:enumeration value="waveline"/>
400     <xsd:enumeration value="weavingAngles"/>
401     <xsd:enumeration value="weavingBraid"/>
402     <xsd:enumeration value="weavingRibbon"/>
403     <xsd:enumeration value="weavingStrips"/>
404     <xsd:enumeration value="whiteFlowers"/>

```

```

405     <xsd:enumeration value="woodwork"/>
406     <xsd:enumeration value="xIllusions"/>
407     <xsd:enumeration value="zanyTriangles"/>
408     <xsd:enumeration value="zigZag"/>
409     <xsd:enumeration value="zigZagStitch"/>
410     <xsd:enumeration value="custom"/>
411   </xsd:restriction>
412 </xsd:simpleType>
413 <xsd:complexType name="CT_Border">
414   <xsd:attribute name="val" type="ST_Border" use="required"/>
415   <xsd:attribute name="color" type="ST_HexColor" use="optional"/>
416   <xsd:attribute name="themeColor" type="ST_ThemeColor" use="optional"/>
417   <xsd:attribute name="themeTint" type="ST_UcharHexNumber" use="optional"/>
418   <xsd:attribute name="themeShade" type="ST_UcharHexNumber" use="optional"/>
419   <xsd:attribute name="sz" type="ST_EighthPointMeasure" use="optional"/>
420   <xsd:attribute name="space" type="ST_PointMeasure" use="optional"/>
421   <xsd:attribute name="shadow" type="s:ST_OnOff" use="optional"/>
422   <xsd:attribute name="frame" type="s:ST_OnOff" use="optional"/>
423 </xsd:complexType>
424 <xsd:simpleType name="ST_Shd">
425   <xsd:restriction base="xsd:string">
426     <xsd:enumeration value="nil"/>
427     <xsd:enumeration value="clear"/>
428     <xsd:enumeration value="solid"/>
429     <xsd:enumeration value="horzStripe"/>
430     <xsd:enumeration value="vertStripe"/>
431     <xsd:enumeration value="reverseDiagStripe"/>
432     <xsd:enumeration value="diagStripe"/>
433     <xsd:enumeration value="horzCross"/>
434     <xsd:enumeration value="diagCross"/>
435     <xsd:enumeration value="thinHorzStripe"/>
436     <xsd:enumeration value="thinVertStripe"/>
437     <xsd:enumeration value="thinReverseDiagStripe"/>
438     <xsd:enumeration value="thinDiagStripe"/>
439     <xsd:enumeration value="thinHorzCross"/>
440     <xsd:enumeration value="thinDiagCross"/>
441     <xsd:enumeration value="pct5"/>
442     <xsd:enumeration value="pct10"/>
443     <xsd:enumeration value="pct12"/>
444     <xsd:enumeration value="pct15"/>
445     <xsd:enumeration value="pct20"/>
446     <xsd:enumeration value="pct25"/>
447     <xsd:enumeration value="pct30"/>
448     <xsd:enumeration value="pct35"/>
449     <xsd:enumeration value="pct37"/>
450     <xsd:enumeration value="pct40"/>
451     <xsd:enumeration value="pct45"/>
452     <xsd:enumeration value="pct50"/>
453     <xsd:enumeration value="pct55"/>
454     <xsd:enumeration value="pct60"/>
455     <xsd:enumeration value="pct62"/>
456     <xsd:enumeration value="pct65"/>
457     <xsd:enumeration value="pct70"/>

```

```

458     <xsd:enumeration value="pct75"/>
459     <xsd:enumeration value="pct80"/>
460     <xsd:enumeration value="pct85"/>
461     <xsd:enumeration value="pct87"/>
462     <xsd:enumeration value="pct90"/>
463     <xsd:enumeration value="pct95"/>
464   </xsd:restriction>
465 </xsd:simpleType>
466 <xsd:complexType name="CT_Shd">
467   <xsd:attribute name="val" type="ST_Shd" use="required"/>
468   <xsd:attribute name="color" type="ST_HexColor" use="optional"/>
469   <xsd:attribute name="themeColor" type="ST_ThemeColor" use="optional"/>
470   <xsd:attribute name="themeTint" type="ST_UcharHexNumber" use="optional"/>
471   <xsd:attribute name="themeShade" type="ST_UcharHexNumber" use="optional"/>
472   <xsd:attribute name="fill" type="ST_HexColor" use="optional"/>
473   <xsd:attribute name="themeFill" type="ST_ThemeColor" use="optional"/>
474   <xsd:attribute name="themeFillTint" type="ST_UcharHexNumber" use="optional"/>
475   <xsd:attribute name="themeFillShade" type="ST_UcharHexNumber" use="optional"/>
476 </xsd:complexType>
477 <xsd:complexType name="CT_VerticalAlignRun">
478   <xsd:attribute name="val" type="s:ST_VerticalAlignRun" use="required"/>
479 </xsd:complexType>
480 <xsd:complexType name="CT_FitText">
481   <xsd:attribute name="val" type="s:ST_TwipsMeasure" use="required"/>
482   <xsd:attribute name="id" type="ST_DecimalNumber" use="optional"/>
483 </xsd:complexType>
484 <xsd:simpleType name="ST_Em">
485   <xsd:restriction base="xsd:string">
486     <xsd:enumeration value="none"/>
487     <xsd:enumeration value="dot"/>
488     <xsd:enumeration value="comma"/>
489     <xsd:enumeration value="circle"/>
490     <xsd:enumeration value="underDot"/>
491   </xsd:restriction>
492 </xsd:simpleType>
493 <xsd:complexType name="CT_Em">
494   <xsd:attribute name="val" type="ST_Em" use="required"/>
495 </xsd:complexType>
496 <xsd:complexType name="CT_Language">
497   <xsd:attribute name="val" type="s:ST_Lang" use="optional"/>
498   <xsd:attribute name="eastAsia" type="s:ST_Lang" use="optional"/>
499   <xsd:attribute name="bidi" type="s:ST_Lang" use="optional"/>
500 </xsd:complexType>
501 <xsd:simpleType name="ST_CombineBrackets">
502   <xsd:restriction base="xsd:string">
503     <xsd:enumeration value="none"/>
504     <xsd:enumeration value="round"/>
505     <xsd:enumeration value="square"/>
506     <xsd:enumeration value="angle"/>
507     <xsd:enumeration value="curly"/>
508   </xsd:restriction>
509 </xsd:simpleType>
510 <xsd:complexType name="CT_EastAsianLayout">

```

```

511     <xsd:attribute name="id" type="ST_DecimalNumber" use="optional"/>
512     <xsd:attribute name="combine" type="s:ST_OnOff" use="optional"/>
513     <xsd:attribute name="combineBrackets" type="ST_CombineBrackets" use="optional"/>
514     <xsd:attribute name="vert" type="s:ST_OnOff" use="optional"/>
515     <xsd:attribute name="vertCompress" type="s:ST_OnOff" use="optional"/>
516 </xsd:complexType>
517 <xsd:simpleType name="ST_HeightRule">
518     <xsd:restriction base="xsd:string">
519         <xsd:enumeration value="auto"/>
520         <xsd:enumeration value="exact"/>
521         <xsd:enumeration value="atLeast"/>
522     </xsd:restriction>
523 </xsd:simpleType>
524 <xsd:simpleType name="ST_Wrap">
525     <xsd:restriction base="xsd:string">
526         <xsd:enumeration value="auto"/>
527         <xsd:enumeration value="notBeside"/>
528         <xsd:enumeration value="around"/>
529         <xsd:enumeration value="tight"/>
530         <xsd:enumeration value="through"/>
531         <xsd:enumeration value="none"/>
532     </xsd:restriction>
533 </xsd:simpleType>
534 <xsd:simpleType name="ST_VAnchor">
535     <xsd:restriction base="xsd:string">
536         <xsd:enumeration value="text"/>
537         <xsd:enumeration value="margin"/>
538         <xsd:enumeration value="page"/>
539     </xsd:restriction>
540 </xsd:simpleType>
541 <xsd:simpleType name="ST_HAnchor">
542     <xsd:restriction base="xsd:string">
543         <xsd:enumeration value="text"/>
544         <xsd:enumeration value="margin"/>
545         <xsd:enumeration value="page"/>
546     </xsd:restriction>
547 </xsd:simpleType>
548 <xsd:simpleType name="ST_DropCap">
549     <xsd:restriction base="xsd:string">
550         <xsd:enumeration value="none"/>
551         <xsd:enumeration value="drop"/>
552         <xsd:enumeration value="margin"/>
553     </xsd:restriction>
554 </xsd:simpleType>
555 <xsd:complexType name="CT_FramePr">
556     <xsd:attribute name="dropCap" type="ST_DropCap" use="optional"/>
557     <xsd:attribute name="lines" type="ST_DecimalNumber" use="optional"/>
558     <xsd:attribute name="w" type="s:ST_TwipsMeasure" use="optional"/>
559     <xsd:attribute name="h" type="s:ST_TwipsMeasure" use="optional"/>
560     <xsd:attribute name="vSpace" type="s:ST_TwipsMeasure" use="optional"/>
561     <xsd:attribute name="hSpace" type="s:ST_TwipsMeasure" use="optional"/>
562     <xsd:attribute name="wrap" type="ST_Wrap" use="optional"/>
563     <xsd:attribute name="hAnchor" type="ST_HAnchor" use="optional"/>

```

```

564     <xsd:attribute name="vAnchor" type="ST_VAnchor" use="optional"/>
565     <xsd:attribute name="x" type="ST_SignedTwipsMeasure" use="optional"/>
566     <xsd:attribute name="xAlign" type="s:ST_XAlign" use="optional"/>
567     <xsd:attribute name="y" type="ST_SignedTwipsMeasure" use="optional"/>
568     <xsd:attribute name="yAlign" type="s:ST_YAlign" use="optional"/>
569     <xsd:attribute name="hRule" type="ST_HeightRule" use="optional"/>
570     <xsd:attribute name="anchorLock" type="s:ST_OnOff" use="optional"/>
571 </xsd:complexType>
572 <xsd:simpleType name="ST_TabJc">
573     <xsd:restriction base="xsd:string">
574         <xsd:enumeration value="clear"/>
575         <xsd:enumeration value="start"/>
576         <xsd:enumeration value="center"/>
577         <xsd:enumeration value="end"/>
578         <xsd:enumeration value="decimal"/>
579         <xsd:enumeration value="bar"/>
580         <xsd:enumeration value="num"/>
581         <xsd:enumeration value="left"/>
582         <xsd:enumeration value="right"/>
583     </xsd:restriction>
584 </xsd:simpleType>
585 <xsd:simpleType name="ST_TabTlc">
586     <xsd:restriction base="xsd:string">
587         <xsd:enumeration value="none"/>
588         <xsd:enumeration value="dot"/>
589         <xsd:enumeration value="hyphen"/>
590         <xsd:enumeration value="underscore"/>
591         <xsd:enumeration value="heavy"/>
592         <xsd:enumeration value="middleDot"/>
593     </xsd:restriction>
594 </xsd:simpleType>
595 <xsd:complexType name="CT_TabStop">
596     <xsd:attribute name="val" type="ST_TabJc" use="required"/>
597     <xsd:attribute name="leader" type="ST_TabTlc" use="optional"/>
598     <xsd:attribute name="pos" type="ST_SignedTwipsMeasure" use="required"/>
599 </xsd:complexType>
600 <xsd:simpleType name="ST_LineSpacingRule">
601     <xsd:restriction base="xsd:string">
602         <xsd:enumeration value="auto"/>
603         <xsd:enumeration value="exact"/>
604         <xsd:enumeration value="atLeast"/>
605     </xsd:restriction>
606 </xsd:simpleType>
607 <xsd:complexType name="CT_Spacing">
608     <xsd:attribute name="before" type="s:ST_TwipsMeasure" use="optional"/>
609     <xsd:attribute name="beforeLines" type="ST_DecimalNumber" use="optional"/>
610     <xsd:attribute name="beforeAutospacing" type="s:ST_OnOff" use="optional"/>
611     <xsd:attribute name="after" type="s:ST_TwipsMeasure" use="optional"/>
612     <xsd:attribute name="afterLines" type="ST_DecimalNumber" use="optional"/>
613     <xsd:attribute name="afterAutospacing" type="s:ST_OnOff" use="optional"/>
614     <xsd:attribute name="line" type="ST_SignedTwipsMeasure" use="optional"/>
615     <xsd:attribute name="lineRule" type="ST_LineSpacingRule" use="optional"/>
616 </xsd:complexType>

```

```

617 <xsd:complexType name="CT_Ind">
618   <xsd:attribute name="start" type="ST_SignedTwipsMeasure" use="optional"/>
619   <xsd:attribute name="startChars" type="ST_DecimalNumber" use="optional"/>
620   <xsd:attribute name="end" type="ST_SignedTwipsMeasure" use="optional"/>
621   <xsd:attribute name="endChars" type="ST_DecimalNumber" use="optional"/>
622   <xsd:attribute name="left" type="ST_SignedTwipsMeasure" use="optional"/>
623   <xsd:attribute name="leftChars" type="ST_DecimalNumber" use="optional"/>
624   <xsd:attribute name="right" type="ST_SignedTwipsMeasure" use="optional"/>
625   <xsd:attribute name="rightChars" type="ST_DecimalNumber" use="optional"/>
626   <xsd:attribute name="hanging" type="s:ST_TwipsMeasure" use="optional"/>
627   <xsd:attribute name="hangingChars" type="ST_DecimalNumber" use="optional"/>
628   <xsd:attribute name="firstLine" type="s:ST_TwipsMeasure" use="optional"/>
629   <xsd:attribute name="firstLineChars" type="ST_DecimalNumber" use="optional"/>
630 </xsd:complexType>
631 <xsd:simpleType name="ST_Jc">
632   <xsd:restriction base="xsd:string">
633     <xsd:enumeration value="start"/>
634     <xsd:enumeration value="center"/>
635     <xsd:enumeration value="end"/>
636     <xsd:enumeration value="both"/>
637     <xsd:enumeration value="mediumKashida"/>
638     <xsd:enumeration value="distribute"/>
639     <xsd:enumeration value="numTab"/>
640     <xsd:enumeration value="highKashida"/>
641     <xsd:enumeration value="lowKashida"/>
642     <xsd:enumeration value="thaiDistribute"/>
643     <xsd:enumeration value="left"/>
644     <xsd:enumeration value="right"/>
645   </xsd:restriction>
646 </xsd:simpleType>
647 <xsd:simpleType name="ST_JcTable">
648   <xsd:restriction base="xsd:string">
649     <xsd:enumeration value="center"/>
650     <xsd:enumeration value="end"/>
651     <xsd:enumeration value="left"/>
652     <xsd:enumeration value="right"/>
653     <xsd:enumeration value="start"/>
654   </xsd:restriction>
655 </xsd:simpleType>
656 <xsd:complexType name="CT_Jc">
657   <xsd:attribute name="val" type="ST_Jc" use="required"/>
658 </xsd:complexType>
659 <xsd:complexType name="CT_JcTable">
660   <xsd:attribute name="val" type="ST_JcTable" use="required"/>
661 </xsd:complexType>
662 <xsd:simpleType name="ST_View">
663   <xsd:restriction base="xsd:string">
664     <xsd:enumeration value="none"/>
665     <xsd:enumeration value="print"/>
666     <xsd:enumeration value="outline"/>
667     <xsd:enumeration value="masterPages"/>
668     <xsd:enumeration value="normal"/>
669     <xsd:enumeration value="web"/>

```



```

670     </xsd:restriction>
671 </xsd:simpleType>
672 <xsd:complexType name="CT_View">
673     <xsd:attribute name="val" type="ST_View" use="required"/>
674 </xsd:complexType>
675 <xsd:simpleType name="ST_Zoom">
676     <xsd:restriction base="xsd:string">
677         <xsd:enumeration value="none"/>
678         <xsd:enumeration value="fullPage"/>
679         <xsd:enumeration value="bestFit"/>
680         <xsd:enumeration value="textFit"/>
681     </xsd:restriction>
682 </xsd:simpleType>
683 <xsd:complexType name="CT_Zoom">
684     <xsd:attribute name="val" type="ST_Zoom" use="optional"/>
685     <xsd:attribute name="percent" type="ST_DecimalNumberOrPercent" use="required"/>
686 </xsd:complexType>
687 <xsd:complexType name="CT_WritingStyle">
688     <xsd:attribute name="lang" type="s:ST_Lang" use="required"/>
689     <xsd:attribute name="vendorID" type="s:ST_String" use="required"/>
690     <xsd:attribute name="dllVersion" type="s:ST_String" use="required"/>
691     <xsd:attribute name="nlCheck" type="s:ST_OnOff" use="optional"/>
692     <xsd:attribute name="checkStyle" type="s:ST_OnOff" use="required"/>
693     <xsd:attribute name="appName" type="s:ST_String" use="required"/>
694 </xsd:complexType>
695 <xsd:simpleType name="ST_Proof">
696     <xsd:restriction base="xsd:string">
697         <xsd:enumeration value="clean"/>
698         <xsd:enumeration value="dirty"/>
699     </xsd:restriction>
700 </xsd:simpleType>
701 <xsd:complexType name="CT_Proof">
702     <xsd:attribute name="spelling" type="ST_Proof" use="optional"/>
703     <xsd:attribute name="grammar" type="ST_Proof" use="optional"/>
704 </xsd:complexType>
705 <xsd:simpleType name="ST_DocType">
706     <xsd:restriction base="xsd:string"/>
707 </xsd:simpleType>
708 <xsd:complexType name="CT_DocType">
709     <xsd:attribute name="val" type="ST_DocType" use="required"/>
710 </xsd:complexType>
711 <xsd:simpleType name="ST_DocProtect">
712     <xsd:restriction base="xsd:string">
713         <xsd:enumeration value="none"/>
714         <xsd:enumeration value="readOnly"/>
715         <xsd:enumeration value="comments"/>
716         <xsd:enumeration value="trackedChanges"/>
717         <xsd:enumeration value="forms"/>
718     </xsd:restriction>
719 </xsd:simpleType>
720 <xsd:attributeGroup name="AG_Password">
721     <xsd:attribute name="algorithmName" type="s:ST_String" use="optional"/>
722     <xsd:attribute name="hashValue" type="xsd:base64Binary" use="optional"/>

```



```

723     <xsd:attribute name="saltValue" type="xsd:base64Binary" use="optional"/>
724     <xsd:attribute name="spinCount" type="ST_DecimalNumber" use="optional"/>
725 </xsd:attributeGroup>
726 <xsd:attributeGroup name="AG_TransitionalPassword">
727     <xsd:attribute name="cryptProviderType" type="s:ST_CryptProv"/>
728     <xsd:attribute name="cryptAlgorithmClass" type="s:ST_AlgorithmClass"/>
729     <xsd:attribute name="cryptAlgorithmType" type="s:ST_AlgorithmType"/>
730     <xsd:attribute name="cryptAlgorithmSid" type="ST_DecimalNumber"/>
731     <xsd:attribute name="cryptSpinCount" type="ST_DecimalNumber"/>
732     <xsd:attribute name="cryptProvider" type="s:ST_String"/>
733     <xsd:attribute name="algIdExt" type="ST_LongHexNumber"/>
734     <xsd:attribute name="algIdExtSource" type="s:ST_String"/>
735     <xsd:attribute name="cryptProviderTypeExt" type="ST_LongHexNumber"/>
736     <xsd:attribute name="cryptProviderTypeExtSource" type="s:ST_String"/>
737     <xsd:attribute name="hash" type="xsd:base64Binary"/>
738     <xsd:attribute name="salt" type="xsd:base64Binary"/>
739 </xsd:attributeGroup>
740 <xsd:complexType name="CT_DocProtect">
741     <xsd:attribute name="edit" type="ST_DocProtect" use="optional"/>
742     <xsd:attribute name="formatting" type="s:ST_OnOff" use="optional"/>
743     <xsd:attribute name="enforcement" type="s:ST_OnOff"/>
744     <xsd:attributeGroup ref="AG_Password"/>
745     <xsd:attributeGroup ref="AG_TransitionalPassword"/>
746 </xsd:complexType>
747 <xsd:simpleType name="ST_MailMergeDocType">
748     <xsd:restriction base="xsd:string">
749         <xsd:enumeration value="catalog"/>
750         <xsd:enumeration value="envelopes"/>
751         <xsd:enumeration value="mailingLabels"/>
752         <xsd:enumeration value="formLetters"/>
753         <xsd:enumeration value="email"/>
754         <xsd:enumeration value="fax"/>
755     </xsd:restriction>
756 </xsd:simpleType>
757 <xsd:complexType name="CT_MailMergeDocType">
758     <xsd:attribute name="val" type="ST_MailMergeDocType" use="required"/>
759 </xsd:complexType>
760 <xsd:simpleType name="ST_MailMergeDataType">
761     <xsd:restriction base="xsd:string"/>
762 </xsd:simpleType>
763 <xsd:complexType name="CT_MailMergeDataType">
764     <xsd:attribute name="val" type="ST_MailMergeDataType" use="required"/>
765 </xsd:complexType>
766 <xsd:simpleType name="ST_MailMergeDest">
767     <xsd:restriction base="xsd:string">
768         <xsd:enumeration value="newDocument"/>
769         <xsd:enumeration value="printer"/>
770         <xsd:enumeration value="email"/>
771         <xsd:enumeration value="fax"/>
772     </xsd:restriction>
773 </xsd:simpleType>
774 <xsd:complexType name="CT_MailMergeDest">
775     <xsd:attribute name="val" type="ST_MailMergeDest" use="required"/>

```

```

776 </xsd:complexType>
777 <xsd:simpleType name="ST_MailMergeOdsoFMDFieldType">
778   <xsd:restriction base="xsd:string">
779     <xsd:enumeration value="null"/>
780     <xsd:enumeration value="dbColumn"/>
781   </xsd:restriction>
782 </xsd:simpleType>
783 <xsd:complexType name="CT_MailMergeOdsoFMDFieldType">
784   <xsd:attribute name="val" type="ST_MailMergeOdsoFMDFieldType" use="required"/>
785 </xsd:complexType>
786 <xsd:complexType name="CT_TrackChangesView">
787   <xsd:attribute name="markup" type="s:ST_OnOff" use="optional"/>
788   <xsd:attribute name="comments" type="s:ST_OnOff" use="optional"/>
789   <xsd:attribute name="insDel" type="s:ST_OnOff" use="optional"/>
790   <xsd:attribute name="formatting" type="s:ST_OnOff" use="optional"/>
791   <xsd:attribute name="inkAnnotations" type="s:ST_OnOff" use="optional"/>
792 </xsd:complexType>
793 <xsd:complexType name="CT_Kinsoku">
794   <xsd:attribute name="lang" type="s:ST_Lang" use="required"/>
795   <xsd:attribute name="val" type="s:ST_String" use="required"/>
796 </xsd:complexType>
797 <xsd:simpleType name="ST_TextDirection">
798   <xsd:restriction base="xsd:string">
799     <xsd:enumeration value="tb"/>
800     <xsd:enumeration value="rl"/>
801     <xsd:enumeration value="lr"/>
802     <xsd:enumeration value="tbV"/>
803     <xsd:enumeration value="rlV"/>
804     <xsd:enumeration value="lrV"/>
805     <xsd:enumeration value="btLr"/>
806     <xsd:enumeration value="lrTb"/>
807     <xsd:enumeration value="lrTbV"/>
808     <xsd:enumeration value="tbLrV"/>
809     <xsd:enumeration value="tbRl"/>
810     <xsd:enumeration value="tbRlV"/>
811   </xsd:restriction>
812 </xsd:simpleType>
813 <xsd:complexType name="CT_TextDirection">
814   <xsd:attribute name="val" type="ST_TextDirection" use="required"/>
815 </xsd:complexType>
816 <xsd:simpleType name="ST_TextAlignment">
817   <xsd:restriction base="xsd:string">
818     <xsd:enumeration value="top"/>
819     <xsd:enumeration value="center"/>
820     <xsd:enumeration value="baseline"/>
821     <xsd:enumeration value="bottom"/>
822     <xsd:enumeration value="auto"/>
823   </xsd:restriction>
824 </xsd:simpleType>
825 <xsd:complexType name="CT_TextAlignment">
826   <xsd:attribute name="val" type="ST_TextAlignment" use="required"/>
827 </xsd:complexType>
828 <xsd:simpleType name="ST_DisplacedByCustomXml">

```

```

829     <xsd:restriction base="xsd:string">
830         <xsd:enumeration value="next"/>
831         <xsd:enumeration value="prev"/>
832     </xsd:restriction>
833 </xsd:simpleType>
834 <xsd:simpleType name="ST_AnnotationVMerge">
835     <xsd:restriction base="xsd:string">
836         <xsd:enumeration value="cont"/>
837         <xsd:enumeration value="rest"/>
838     </xsd:restriction>
839 </xsd:simpleType>
840 <xsd:complexType name="CT_Markup">
841     <xsd:attribute name="id" type="ST_DecimalNumber" use="required"/>
842 </xsd:complexType>
843 <xsd:complexType name="CT_TrackChange">
844     <xsd:complexContent>
845         <xsd:extension base="CT_Markup">
846             <xsd:attribute name="author" type="s:ST_String" use="required"/>
847             <xsd:attribute name="date" type="ST_DateTime" use="optional"/>
848         </xsd:extension>
849     </xsd:complexContent>
850 </xsd:complexType>
851 <xsd:complexType name="CT_CellMergeTrackChange">
852     <xsd:complexContent>
853         <xsd:extension base="CT_TrackChange">
854             <xsd:attribute name="vMerge" type="ST_AnnotationVMerge" use="optional"/>
855             <xsd:attribute name="vMergeOrig" type="ST_AnnotationVMerge" use="optional"/>
856         </xsd:extension>
857     </xsd:complexContent>
858 </xsd:complexType>
859 <xsd:complexType name="CT_TrackChangeRange">
860     <xsd:complexContent>
861         <xsd:extension base="CT_TrackChange">
862             <xsd:attribute name="displacedByCustomXml" type="ST_DisplacedByCustomXml"
863                 use="optional"/>
864         </xsd:extension>
865     </xsd:complexContent>
866 </xsd:complexType>
867 <xsd:complexType name="CT_MarkupRange">
868     <xsd:complexContent>
869         <xsd:extension base="CT_Markup">
870             <xsd:attribute name="displacedByCustomXml" type="ST_DisplacedByCustomXml"
871                 use="optional"/>
872         </xsd:extension>
873     </xsd:complexContent>
874 </xsd:complexType>
875 <xsd:complexType name="CT_BookmarkRange">
876     <xsd:complexContent>
877         <xsd:extension base="CT_MarkupRange">
878             <xsd:attribute name="colFirst" type="ST_DecimalNumber" use="optional"/>
879             <xsd:attribute name="colLast" type="ST_DecimalNumber" use="optional"/>
880         </xsd:extension>
881     </xsd:complexContent>

```

```

882 </xsd:complexType>
883 <xsd:complexType name="CT_Bookmark">
884   <xsd:complexContent>
885     <xsd:extension base="CT_BookmarkRange">
886       <xsd:attribute name="name" type="s:ST_String" use="required"/>
887     </xsd:extension>
888   </xsd:complexContent>
889 </xsd:complexType>
890 <xsd:complexType name="CT_MoveBookmark">
891   <xsd:complexContent>
892     <xsd:extension base="CT_Bookmark">
893       <xsd:attribute name="author" type="s:ST_String" use="required"/>
894       <xsd:attribute name="date" type="ST_DateTime" use="required"/>
895     </xsd:extension>
896   </xsd:complexContent>
897 </xsd:complexType>
898 <xsd:complexType name="CT_Comment">
899   <xsd:complexContent>
900     <xsd:extension base="CT_TrackChange">
901       <xsd:sequence>
902         <xsd:group ref="EG_BlockLevelElts" minOccurs="0" maxOccurs="unbounded"/>
903       </xsd:sequence>
904       <xsd:attribute name="initials" type="s:ST_String" use="optional"/>
905     </xsd:extension>
906   </xsd:complexContent>
907 </xsd:complexType>
908 <xsd:complexType name="CT_TrackChangeNumbering">
909   <xsd:complexContent>
910     <xsd:extension base="CT_TrackChange">
911       <xsd:attribute name="original" type="s:ST_String" use="optional"/>
912     </xsd:extension>
913   </xsd:complexContent>
914 </xsd:complexType>
915 <xsd:complexType name="CT_TblPrExChange">
916   <xsd:complexContent>
917     <xsd:extension base="CT_TrackChange">
918       <xsd:sequence>
919         <xsd:element name="tblPrEx" type="CT_TblPrExBase" minOccurs="1"/>
920       </xsd:sequence>
921     </xsd:extension>
922   </xsd:complexContent>
923 </xsd:complexType>
924 <xsd:complexType name="CT_TcPrChange">
925   <xsd:complexContent>
926     <xsd:extension base="CT_TrackChange">
927       <xsd:sequence>
928         <xsd:element name="tcPr" type="CT_TcPrInner" minOccurs="1"/>
929       </xsd:sequence>
930     </xsd:extension>
931   </xsd:complexContent>
932 </xsd:complexType>
933 <xsd:complexType name="CT_TrPrChange">
934   <xsd:complexContent>

```

```

935     <xsd:extension base="CT_TrackChange">
936         <xsd:sequence>
937             <xsd:element name="trPr" type="CT_TrPrBase" minOccurs="1"/>
938         </xsd:sequence>
939     </xsd:extension>
940 </xsd:complexContent>
941 </xsd:complexType>
942 <xsd:complexType name="CT_TblGridChange">
943     <xsd:complexContent>
944         <xsd:extension base="CT_Markup">
945             <xsd:sequence>
946                 <xsd:element name="tblGrid" type="CT_TblGridBase"/>
947             </xsd:sequence>
948         </xsd:extension>
949     </xsd:complexContent>
950 </xsd:complexType>
951 <xsd:complexType name="CT_TblPrChange">
952     <xsd:complexContent>
953         <xsd:extension base="CT_TrackChange">
954             <xsd:sequence>
955                 <xsd:element name="tblPr" type="CT_TblPrBase"/>
956             </xsd:sequence>
957         </xsd:extension>
958     </xsd:complexContent>
959 </xsd:complexType>
960 <xsd:complexType name="CT_SectPrChange">
961     <xsd:complexContent>
962         <xsd:extension base="CT_TrackChange">
963             <xsd:sequence>
964                 <xsd:element name="sectPr" type="CT_SectPrBase" minOccurs="0"/>
965             </xsd:sequence>
966         </xsd:extension>
967     </xsd:complexContent>
968 </xsd:complexType>
969 <xsd:complexType name="CT_PPrChange">
970     <xsd:complexContent>
971         <xsd:extension base="CT_TrackChange">
972             <xsd:sequence>
973                 <xsd:element name="pPr" type="CT_PPrBase" minOccurs="1"/>
974             </xsd:sequence>
975         </xsd:extension>
976     </xsd:complexContent>
977 </xsd:complexType>
978 <xsd:complexType name="CT_RPrChange">
979     <xsd:complexContent>
980         <xsd:extension base="CT_TrackChange">
981             <xsd:sequence>
982                 <xsd:element name="rPr" type="CT_RPrOriginal" minOccurs="1"/>
983             </xsd:sequence>
984         </xsd:extension>
985     </xsd:complexContent>
986 </xsd:complexType>
987 <xsd:complexType name="CT_ParaRPrChange">

```

```

988     <xsd:complexContent>
989         <xsd:extension base="CT_TrackChange">
990             <xsd:sequence>
991                 <xsd:element name="rPr" type="CT_ParaRPrOriginal" minOccurs="1"/>
992             </xsd:sequence>
993         </xsd:extension>
994     </xsd:complexContent>
995 </xsd:complexType>
996 <xsd:complexType name="CT_RunTrackChange">
997     <xsd:complexContent>
998         <xsd:extension base="CT_TrackChange">
999             <xsd:choice minOccurs="0" maxOccurs="unbounded">
1000                 <xsd:group ref="EG_ContentRunContent"/>
1001                 <xsd:group ref="m:EG_OMathMathElements"/>
1002             </xsd:choice>
1003         </xsd:extension>
1004     </xsd:complexContent>
1005 </xsd:complexType>
1006 <xsd:group name="EG_PContentMath">
1007     <xsd:choice>
1008         <xsd:group ref="EG_PContentBase" minOccurs="0" maxOccurs="unbounded" />
1009         <xsd:group ref="EG_ContentRunContentBase" minOccurs="0"
1010             maxOccurs="unbounded" />
1011     </xsd:choice>
1012 </xsd:group>
1013 <xsd:group name="EG_PContentBase">
1014     <xsd:choice>
1015         <xsd:element name="customXml" type="CT_CustomXmlRun"/>
1016         <xsd:element name="fldSimple" type="CT_SimpleField" minOccurs="0"
1017             maxOccurs="unbounded"/>
1018         <xsd:element name="hyperlink" type="CT_Hyperlink"/>
1019     </xsd:choice>
1020 </xsd:group>
1021 <xsd:group name="EG_ContentRunContentBase">
1022     <xsd:choice>
1023         <xsd:element name="smartTag" type="CT_SmartTagRun"/>
1024         <xsd:element name="sdt" type="CT_SdtRun"/>
1025         <xsd:group ref="EG_RunLevelElt" minOccurs="0" maxOccurs="unbounded" />
1026     </xsd:choice>
1027 </xsd:group>
1028 <xsd:group name="EG_CellMarkupElements">
1029     <xsd:choice>
1030         <xsd:element name="cellIns" type="CT_TrackChange" minOccurs="0"/>
1031         <xsd:element name="cellDel" type="CT_TrackChange" minOccurs="0"/>
1032         <xsd:element name="cellMerge" type="CT_CellMergeTrackChange" minOccurs="0"/>
1033     </xsd:choice>
1034 </xsd:group>
1035 <xsd:group name="EG_RangeMarkupElements">
1036     <xsd:choice>
1037         <xsd:element name="bookmarkStart" type="CT_Bookmark"/>
1038         <xsd:element name="bookmarkEnd" type="CT_MarkupRange"/>
1039         <xsd:element name="moveFromRangeStart" type="CT_MoveBookmark"/>
1040         <xsd:element name="moveFromRangeEnd" type="CT_MarkupRange"/>

```

```

1041     <xsd:element name="moveToRangeStart" type="CT_MoveBookmark"/>
1042     <xsd:element name="moveToRangeEnd" type="CT_MarkupRange"/>
1043     <xsd:element name="commentRangeStart" type="CT_MarkupRange"/>
1044     <xsd:element name="commentRangeEnd" type="CT_MarkupRange"/>
1045     <xsd:element name="customXmlInsRangeStart" type="CT_TrackChange"/>
1046     <xsd:element name="customXmlInsRangeEnd" type="CT_Markup"/>
1047     <xsd:element name="customXmlDelRangeStart" type="CT_TrackChange"/>
1048     <xsd:element name="customXmlDelRangeEnd" type="CT_Markup"/>
1049     <xsd:element name="customXmlMoveFromRangeStart" type="CT_TrackChange"/>
1050     <xsd:element name="customXmlMoveFromRangeEnd" type="CT_Markup"/>
1051     <xsd:element name="customXmlMoveToRangeStart" type="CT_TrackChange"/>
1052     <xsd:element name="customXmlMoveToRangeEnd" type="CT_Markup"/>
1053   </xsd:choice>
1054 </xsd:group>
1055 <xsd:complexType name="CT_NumPr">
1056   <xsd:sequence>
1057     <xsd:element name="ilvl" type="CT_DecimalNumber" minOccurs="0"/>
1058     <xsd:element name="numId" type="CT_DecimalNumber" minOccurs="0"/>
1059     <xsd:element name="numberingChange" type="CT_TrackChangeNumbering" minOccurs="0"/>
1060     <xsd:element name="ins" type="CT_TrackChange" minOccurs="0"/>
1061   </xsd:sequence>
1062 </xsd:complexType>
1063 <xsd:complexType name="CT_PBdr">
1064   <xsd:sequence>
1065     <xsd:element name="top" type="CT_Border" minOccurs="0"/>
1066     <xsd:element name="left" type="CT_Border" minOccurs="0"/>
1067     <xsd:element name="bottom" type="CT_Border" minOccurs="0"/>
1068     <xsd:element name="right" type="CT_Border" minOccurs="0"/>
1069     <xsd:element name="between" type="CT_Border" minOccurs="0"/>
1070     <xsd:element name="bar" type="CT_Border" minOccurs="0"/>
1071   </xsd:sequence>
1072 </xsd:complexType>
1073 <xsd:complexType name="CT_Tabs">
1074   <xsd:sequence>
1075     <xsd:element name="tab" type="CT_TabStop" minOccurs="1" maxOccurs="unbounded"/>
1076   </xsd:sequence>
1077 </xsd:complexType>
1078 <xsd:simpleType name="ST_TextboxTightWrap">
1079   <xsd:restriction base="xsd:string">
1080     <xsd:enumeration value="none"/>
1081     <xsd:enumeration value="allLines"/>
1082     <xsd:enumeration value="firstAndLastLine"/>
1083     <xsd:enumeration value="firstLineOnly"/>
1084     <xsd:enumeration value="lastLineOnly"/>
1085   </xsd:restriction>
1086 </xsd:simpleType>
1087 <xsd:complexType name="CT_TextboxTightWrap">
1088   <xsd:attribute name="val" type="ST_TextboxTightWrap" use="required"/>
1089 </xsd:complexType>
1090 <xsd:complexType name="CT_PPr">
1091   <xsd:complexContent>
1092     <xsd:extension base="CT_PPrBase">
1093       <xsd:sequence>

```



```

1094         <xsd:element name="rPr" type="CT_ParaRPr" minOccurs="0"/>
1095         <xsd:element name="sectPr" type="CT_SectPr" minOccurs="0"/>
1096         <xsd:element name="pPrChange" type="CT_PPrChange" minOccurs="0"/>
1097     </xsd:sequence>
1098 </xsd:extension>
1099 </xsd:complexContent>
1100 </xsd:complexType>
1101 <xsd:complexType name="CT_PPrBase">
1102     <xsd:sequence>
1103         <xsd:element name="pStyle" type="CT_String" minOccurs="0"/>
1104         <xsd:element name="keepNext" type="CT_OnOff" minOccurs="0"/>
1105         <xsd:element name="keepLines" type="CT_OnOff" minOccurs="0"/>
1106         <xsd:element name="pageBreakBefore" type="CT_OnOff" minOccurs="0"/>
1107         <xsd:element name="framePr" type="CT_FramePr" minOccurs="0"/>
1108         <xsd:element name="widowControl" type="CT_OnOff" minOccurs="0"/>
1109         <xsd:element name="numPr" type="CT_NumPr" minOccurs="0"/>
1110         <xsd:element name="suppressLineNumbers" type="CT_OnOff" minOccurs="0"/>
1111         <xsd:element name="pBdr" type="CT_PBdr" minOccurs="0"/>
1112         <xsd:element name="shd" type="CT_Shdt" minOccurs="0"/>
1113         <xsd:element name="tabs" type="CT_Tabs" minOccurs="0"/>
1114         <xsd:element name="suppressAutoHyphens" type="CT_OnOff" minOccurs="0"/>
1115         <xsd:element name="kinsoku" type="CT_OnOff" minOccurs="0"/>
1116         <xsd:element name="wordWrap" type="CT_OnOff" minOccurs="0"/>
1117         <xsd:element name="overflowPunct" type="CT_OnOff" minOccurs="0"/>
1118         <xsd:element name="topLinePunct" type="CT_OnOff" minOccurs="0"/>
1119         <xsd:element name="autoSpaceDE" type="CT_OnOff" minOccurs="0"/>
1120         <xsd:element name="autoSpaceDN" type="CT_OnOff" minOccurs="0"/>
1121         <xsd:element name="bidi" type="CT_OnOff" minOccurs="0"/>
1122         <xsd:element name="adjustRightInd" type="CT_OnOff" minOccurs="0"/>
1123         <xsd:element name="snapToGrid" type="CT_OnOff" minOccurs="0"/>
1124         <xsd:element name="spacing" type="CT_Spacing" minOccurs="0"/>
1125         <xsd:element name="ind" type="CT_Ind" minOccurs="0"/>
1126         <xsd:element name="contextualSpacing" type="CT_OnOff" minOccurs="0"/>
1127         <xsd:element name="mirrorIndents" type="CT_OnOff" minOccurs="0"/>
1128         <xsd:element name="suppressOverlap" type="CT_OnOff" minOccurs="0"/>
1129         <xsd:element name="jc" type="CT_Jc" minOccurs="0"/>
1130         <xsd:element name="textDirection" type="CT_TextDirection" minOccurs="0"/>
1131         <xsd:element name="textAlignment" type="CT_TextAlignment" minOccurs="0"/>
1132         <xsd:element name="textboxTightWrap" type="CT_TextboxTightWrap" minOccurs="0"/>
1133         <xsd:element name="outlineLvl" type="CT_DecimalNumber" minOccurs="0"/>
1134         <xsd:element name="divId" type="CT_DecimalNumber" minOccurs="0"/>
1135         <xsd:element name="cnfStyle" type="CT_Cnf" minOccurs="0" maxOccurs="1"/>
1136     </xsd:sequence>
1137 </xsd:complexType>
1138 <xsd:complexType name="CT_PPrGeneral">
1139     <xsd:complexContent>
1140         <xsd:extension base="CT_PPrBase">
1141             <xsd:sequence>
1142                 <xsd:element name="pPrChange" type="CT_PPrChange" minOccurs="0"/>
1143             </xsd:sequence>
1144         </xsd:extension>
1145     </xsd:complexContent>
1146 </xsd:complexType>

```



```

1147 <xsd:complexType name="CT_Control">
1148   <xsd:attribute name="name" type="s:ST String" use="optional"/>
1149   <xsd:attribute name="shapeid" type="s:ST String" use="optional"/>
1150   <xsd:attribute ref="r:id" use="optional"/>
1151 </xsd:complexType>
1152 <xsd:complexType name="CT_Background">
1153   <xsd:sequence>
1154     <xsd:sequence maxOccurs="unbounded">
1155       <xsd:any processContents="lax" namespace="urn:schemas-microsoft-com:vm1" minOccurs="0"
1156         maxOccurs="unbounded"/>
1157       <xsd:any processContents="lax" namespace="urn:schemas-microsoft-com:office:office"
1158         minOccurs="0" maxOccurs="unbounded"/>
1159     </xsd:sequence>
1160     <xsd:element name="drawing" type="CT_Drawing" minOccurs="0"/>
1161   </xsd:sequence>
1162   <xsd:attribute name="color" type="ST HexColor" use="optional"/>
1163   <xsd:attribute name="themeColor" type="ST ThemeColor" use="optional"/>
1164   <xsd:attribute name="themeTint" type="ST UcharHexNumber" use="optional"/>
1165   <xsd:attribute name="themeShade" type="ST UcharHexNumber" use="optional"/>
1166 </xsd:complexType>
1167 <xsd:complexType name="CT_Rel">
1168   <xsd:attribute ref="r:id" use="required"/>
1169 </xsd:complexType>
1170 <xsd:complexType name="CT_Object">
1171   <xsd:sequence>
1172     <xsd:sequence maxOccurs="unbounded">
1173       <xsd:any processContents="lax" namespace="urn:schemas-microsoft-com:vm1" minOccurs="0"
1174         maxOccurs="unbounded"/>
1175       <xsd:any processContents="lax" namespace="urn:schemas-microsoft-com:office:office"
1176         minOccurs="0" maxOccurs="unbounded"/>
1177     </xsd:sequence>
1178     <xsd:element name="drawing" type="CT_Drawing" minOccurs="0"/>
1179     <xsd:choice minOccurs="0">
1180       <xsd:element name="control" type="CT_Control"/>
1181       <xsd:element name="objectLink" type="CT_ObjectLink"/>
1182       <xsd:element name="objectEmbed" type="CT_ObjectEmbed"/>
1183       <xsd:element name="movie" type="CT_Rel"/>
1184     </xsd:choice>
1185   </xsd:sequence>
1186   <xsd:attribute name="dxaOrig" type="s:ST TwipsMeasure" use="optional"/>
1187   <xsd:attribute name="dyaOrig" type="s:ST TwipsMeasure" use="optional"/>
1188 </xsd:complexType>
1189 <xsd:complexType name="CT_Picture">
1190   <xsd:sequence>
1191     <xsd:sequence maxOccurs="unbounded">
1192       <xsd:any processContents="lax" namespace="urn:schemas-microsoft-com:vm1" minOccurs="0"
1193         maxOccurs="unbounded"/>
1194       <xsd:any processContents="lax" namespace="urn:schemas-microsoft-com:office:office"
1195         minOccurs="0" maxOccurs="unbounded"/>
1196     </xsd:sequence>
1197     <xsd:element name="movie" type="CT_Rel" minOccurs="0"/>
1198     <xsd:element name="control" type="CT_Control" minOccurs="0"/>
1199   </xsd:sequence>

```

```

1200 </xsd:complexType>
1201 <xsd:complexType name="CT_ObjectEmbed">
1202   <xsd:attribute name="drawAspect" type="ST_ObjectDrawAspect" use="optional"/>
1203   <xsd:attribute ref="r:id" use="required"/>
1204   <xsd:attribute name="progId" type="s:ST_String" use="optional"/>
1205   <xsd:attribute name="shapeId" type="s:ST_String" use="optional"/>
1206   <xsd:attribute name="fieldCodes" type="s:ST_String" use="optional"/>
1207 </xsd:complexType>
1208 <xsd:simpleType name="ST_ObjectDrawAspect">
1209   <xsd:restriction base="xsd:string">
1210     <xsd:enumeration value="content"/>
1211     <xsd:enumeration value="icon"/>
1212   </xsd:restriction>
1213 </xsd:simpleType>
1214 <xsd:complexType name="CT_ObjectLink">
1215   <xsd:complexContent>
1216     <xsd:extension base="CT_ObjectEmbed">
1217       <xsd:attribute name="updateMode" type="ST_ObjectUpdateMode" use="required"/>
1218       <xsd:attribute name="lockedField" type="s:ST_OnOff" use="optional"/>
1219     </xsd:extension>
1220   </xsd:complexContent>
1221 </xsd:complexType>
1222 <xsd:simpleType name="ST_ObjectUpdateMode">
1223   <xsd:restriction base="xsd:string">
1224     <xsd:enumeration value="always"/>
1225     <xsd:enumeration value="onCall"/>
1226   </xsd:restriction>
1227 </xsd:simpleType>
1228 <xsd:complexType name="CT_Drawing">
1229   <xsd:choice minOccurs="1" maxOccurs="unbounded">
1230     <xsd:element ref="wp:anchor" minOccurs="0"/>
1231     <xsd:element ref="wp:inline" minOccurs="0"/>
1232   </xsd:choice>
1233 </xsd:complexType>
1234 <xsd:complexType name="CT_SimpleField">
1235   <xsd:sequence>
1236     <xsd:element name="fldData" type="CT_Text" minOccurs="0" maxOccurs="1"/>
1237     <xsd:group ref="EG_PContent" minOccurs="0" maxOccurs="unbounded"/>
1238   </xsd:sequence>
1239   <xsd:attribute name="instr" type="s:ST_String" use="required"/>
1240   <xsd:attribute name="fldLock" type="s:ST_OnOff"/>
1241   <xsd:attribute name="dirty" type="s:ST_OnOff"/>
1242 </xsd:complexType>
1243 <xsd:simpleType name="ST_FldCharType">
1244   <xsd:restriction base="xsd:string">
1245     <xsd:enumeration value="begin"/>
1246     <xsd:enumeration value="separate"/>
1247     <xsd:enumeration value="end"/>
1248   </xsd:restriction>
1249 </xsd:simpleType>
1250 <xsd:simpleType name="ST_InfoTextType">
1251   <xsd:restriction base="xsd:string">
1252     <xsd:enumeration value="text"/>

```

```

1253     <xsd:enumeration value="autoText"/>
1254   </xsd:restriction>
1255 </xsd:simpleType>
1256 <xsd:simpleType name="ST_FFHelpTextVal">
1257   <xsd:restriction base="xsd:string">
1258     <xsd:maxLength value="256"/>
1259   </xsd:restriction>
1260 </xsd:simpleType>
1261 <xsd:simpleType name="ST_FFStatusTextVal">
1262   <xsd:restriction base="xsd:string">
1263     <xsd:maxLength value="140"/>
1264   </xsd:restriction>
1265 </xsd:simpleType>
1266 <xsd:simpleType name="ST_FFName">
1267   <xsd:restriction base="xsd:string">
1268     <xsd:maxLength value="65"/>
1269   </xsd:restriction>
1270 </xsd:simpleType>
1271 <xsd:simpleType name="ST_FFTextType">
1272   <xsd:restriction base="xsd:string">
1273     <xsd:enumeration value="regular"/>
1274     <xsd:enumeration value="number"/>
1275     <xsd:enumeration value="date"/>
1276     <xsd:enumeration value="currentTime"/>
1277     <xsd:enumeration value="currentDate"/>
1278     <xsd:enumeration value="calculated"/>
1279   </xsd:restriction>
1280 </xsd:simpleType>
1281 <xsd:complexType name="CT_FFTextType">
1282   <xsd:attribute name="val" type="ST_FFTextType" use="required"/>
1283 </xsd:complexType>
1284 <xsd:complexType name="CT_FFName">
1285   <xsd:attribute name="val" type="ST_FFName"/>
1286 </xsd:complexType>
1287 <xsd:complexType name="CT_FldChar">
1288   <xsd:choice>
1289     <xsd:element name="fldData" type="CT_Text" minOccurs="0" maxOccurs="1"/>
1290     <xsd:element name="ffData" type="CT_FFData" minOccurs="0" maxOccurs="1"/>
1291     <xsd:element name="numberingChange" type="CT_TrackChangeNumbering" minOccurs="0"/>
1292   </xsd:choice>
1293   <xsd:attribute name="fldCharType" type="ST_FldCharType" use="required"/>
1294   <xsd:attribute name="fldLock" type="s:ST_OnOff"/>
1295   <xsd:attribute name="dirty" type="s:ST_OnOff"/>
1296 </xsd:complexType>
1297 <xsd:complexType name="CT_Hyperlink">
1298   <xsd:group ref="EG_PContent" minOccurs="0" maxOccurs="unbounded"/>
1299   <xsd:attribute name="tgtFrame" type="s:ST_String" use="optional"/>
1300   <xsd:attribute name="tooltip" type="s:ST_String" use="optional"/>
1301   <xsd:attribute name="docLocation" type="s:ST_String" use="optional"/>
1302   <xsd:attribute name="history" type="s:ST_OnOff" use="optional"/>
1303   <xsd:attribute name="anchor" type="s:ST_String" use="optional"/>
1304   <xsd:attribute ref="r:id"/>
1305 </xsd:complexType>

```

```

1306 <xsd:complexType name="CT_FFData">
1307   <xsd:choice maxOccurs="unbounded">
1308     <xsd:element name="name" type="CT_FFName"/>
1309     <xsd:element name="label" type="CT_DecimalNumber" minOccurs="0"/>
1310     <xsd:element name="tabIndex" type="CT_UnsignedDecimalNumber" minOccurs="0"/>
1311     <xsd:element name="enabled" type="CT_OnOff"/>
1312     <xsd:element name="calcOnExit" type="CT_OnOff"/>
1313     <xsd:element name="entryMacro" type="CT_MacroName" minOccurs="0" maxOccurs="1"/>
1314     <xsd:element name="exitMacro" type="CT_MacroName" minOccurs="0" maxOccurs="1"/>
1315     <xsd:element name="helpText" type="CT_FFHelpText" minOccurs="0" maxOccurs="1"/>
1316     <xsd:element name="statusText" type="CT_FFStatusText" minOccurs="0" maxOccurs="1"/>
1317     <xsd:choice>
1318       <xsd:element name="checkBox" type="CT_FFCheckBox"/>
1319       <xsd:element name="ddList" type="CT_FFDDList"/>
1320       <xsd:element name="textInput" type="CT_FFTextInput"/>
1321     </xsd:choice>
1322   </xsd:choice>
1323 </xsd:complexType>
1324 <xsd:complexType name="CT_FFHelpText">
1325   <xsd:attribute name="type" type="ST_InfoTextType"/>
1326   <xsd:attribute name="val" type="ST_FFHelpTextVal"/>
1327 </xsd:complexType>
1328 <xsd:complexType name="CT_FFStatusText">
1329   <xsd:attribute name="type" type="ST_InfoTextType"/>
1330   <xsd:attribute name="val" type="ST_FFStatusTextVal"/>
1331 </xsd:complexType>
1332 <xsd:complexType name="CT_FFCheckBox">
1333   <xsd:sequence>
1334     <xsd:choice>
1335       <xsd:element name="size" type="CT_HpsMeasure"/>
1336       <xsd:element name="sizeAuto" type="CT_OnOff"/>
1337     </xsd:choice>
1338     <xsd:element name="default" type="CT_OnOff" minOccurs="0"/>
1339     <xsd:element name="checked" type="CT_OnOff" minOccurs="0"/>
1340   </xsd:sequence>
1341 </xsd:complexType>
1342 <xsd:complexType name="CT_FFDDList">
1343   <xsd:sequence>
1344     <xsd:element name="result" type="CT_DecimalNumber" minOccurs="0"/>
1345     <xsd:element name="default" type="CT_DecimalNumber" minOccurs="0"/>
1346     <xsd:element name="listEntry" type="CT_String" minOccurs="0" maxOccurs="unbounded"/>
1347   </xsd:sequence>
1348 </xsd:complexType>
1349 <xsd:complexType name="CT_FFTextInput">
1350   <xsd:sequence>
1351     <xsd:element name="type" type="CT_FFTextType" minOccurs="0"/>
1352     <xsd:element name="default" type="CT_String" minOccurs="0"/>
1353     <xsd:element name="maxLength" type="CT_DecimalNumber" minOccurs="0"/>
1354     <xsd:element name="format" type="CT_String" minOccurs="0"/>
1355   </xsd:sequence>
1356 </xsd:complexType>
1357 <xsd:simpleType name="ST_SectionMark">
1358   <xsd:restriction base="xsd:string">

```

```

1359     <xsd:enumeration value="nextPage"/>
1360     <xsd:enumeration value="nextColumn"/>
1361     <xsd:enumeration value="continuous"/>
1362     <xsd:enumeration value="evenPage"/>
1363     <xsd:enumeration value="oddPage"/>
1364   </xsd:restriction>
1365 </xsd:simpleType>
1366 <xsd:complexType name="CT_SectType">
1367   <xsd:attribute name="val" type="ST_SectionMark"/>
1368 </xsd:complexType>
1369 <xsd:complexType name="CT_PaperSource">
1370   <xsd:attribute name="first" type="ST_DecimalNumber"/>
1371   <xsd:attribute name="other" type="ST_DecimalNumber"/>
1372 </xsd:complexType>
1373 <xsd:simpleType name="ST_NumberFormat">
1374   <xsd:restriction base="xsd:string">
1375     <xsd:enumeration value="decimal"/>
1376     <xsd:enumeration value="upperRoman"/>
1377     <xsd:enumeration value="lowerRoman"/>
1378     <xsd:enumeration value="upperLetter"/>
1379     <xsd:enumeration value="lowerLetter"/>
1380     <xsd:enumeration value="ordinal"/>
1381     <xsd:enumeration value="cardinalText"/>
1382     <xsd:enumeration value="ordinalText"/>
1383     <xsd:enumeration value="hex"/>
1384     <xsd:enumeration value="chicago"/>
1385     <xsd:enumeration value="ideographDigital"/>
1386     <xsd:enumeration value="japaneseCounting"/>
1387     <xsd:enumeration value="aiueo"/>
1388     <xsd:enumeration value="iroha"/>
1389     <xsd:enumeration value="decimalFullWidth"/>
1390     <xsd:enumeration value="decimalHalfWidth"/>
1391     <xsd:enumeration value="japaneseLegal"/>
1392     <xsd:enumeration value="japaneseDigitalTenThousand"/>
1393     <xsd:enumeration value="decimalEnclosedCircle"/>
1394     <xsd:enumeration value="decimalFullWidth2"/>
1395     <xsd:enumeration value="aiueoFullWidth"/>
1396     <xsd:enumeration value="irohaFullWidth"/>
1397     <xsd:enumeration value="decimalZero"/>
1398     <xsd:enumeration value="bullet"/>
1399     <xsd:enumeration value="ganada"/>
1400     <xsd:enumeration value="chosung"/>
1401     <xsd:enumeration value="decimalEnclosedFullstop"/>
1402     <xsd:enumeration value="decimalEnclosedParen"/>
1403     <xsd:enumeration value="decimalEnclosedCircleChinese"/>
1404     <xsd:enumeration value="ideographEnclosedCircle"/>
1405     <xsd:enumeration value="ideographTraditional"/>
1406     <xsd:enumeration value="ideographZodiac"/>
1407     <xsd:enumeration value="ideographZodiacTraditional"/>
1408     <xsd:enumeration value="taiwaneseCounting"/>
1409     <xsd:enumeration value="ideographLegalTraditional"/>
1410     <xsd:enumeration value="taiwaneseCountingThousand"/>
1411     <xsd:enumeration value="taiwaneseDigital"/>

```

```

1412     <xsd:enumeration value="chineseCounting"/>
1413     <xsd:enumeration value="chineseLegalSimplified"/>
1414     <xsd:enumeration value="chineseCountingThousand"/>
1415     <xsd:enumeration value="koreanDigital"/>
1416     <xsd:enumeration value="koreanCounting"/>
1417     <xsd:enumeration value="koreanLegal"/>
1418     <xsd:enumeration value="koreanDigital2"/>
1419     <xsd:enumeration value="vietnameseCounting"/>
1420     <xsd:enumeration value="russianLower"/>
1421     <xsd:enumeration value="russianUpper"/>
1422     <xsd:enumeration value="none"/>
1423     <xsd:enumeration value="numberInDash"/>
1424     <xsd:enumeration value="hebrew1"/>
1425     <xsd:enumeration value="hebrew2"/>
1426     <xsd:enumeration value="arabicAlpha"/>
1427     <xsd:enumeration value="arabicAbjad"/>
1428     <xsd:enumeration value="hindiVowels"/>
1429     <xsd:enumeration value="hindiConsonants"/>
1430     <xsd:enumeration value="hindiNumbers"/>
1431     <xsd:enumeration value="hindiCounting"/>
1432     <xsd:enumeration value="thaiLetters"/>
1433     <xsd:enumeration value="thaiNumbers"/>
1434     <xsd:enumeration value="thaiCounting"/>
1435     <xsd:enumeration value="bahtText"/>
1436     <xsd:enumeration value="dollarText"/>
1437     <xsd:enumeration value="custom"/>
1438   </xsd:restriction>
1439 </xsd:simpleType>
1440 <xsd:simpleType name="ST_PageOrientation">
1441   <xsd:restriction base="xsd:string">
1442     <xsd:enumeration value="portrait"/>
1443     <xsd:enumeration value="landscape"/>
1444   </xsd:restriction>
1445 </xsd:simpleType>
1446 <xsd:complexType name="CT_PageSz">
1447   <xsd:attribute name="w" type="s:ST_TwipsMeasure"/>
1448   <xsd:attribute name="h" type="s:ST_TwipsMeasure"/>
1449   <xsd:attribute name="orient" type="ST_PageOrientation" use="optional"/>
1450   <xsd:attribute name="code" type="ST_DecimalNumber" use="optional"/>
1451 </xsd:complexType>
1452 <xsd:complexType name="CT_PageMar">
1453   <xsd:attribute name="top" type="ST_SignedTwipsMeasure" use="required"/>
1454   <xsd:attribute name="right" type="s:ST_TwipsMeasure" use="required"/>
1455   <xsd:attribute name="bottom" type="ST_SignedTwipsMeasure" use="required"/>
1456   <xsd:attribute name="left" type="s:ST_TwipsMeasure" use="required"/>
1457   <xsd:attribute name="header" type="s:ST_TwipsMeasure" use="required"/>
1458   <xsd:attribute name="footer" type="s:ST_TwipsMeasure" use="required"/>
1459   <xsd:attribute name="gutter" type="s:ST_TwipsMeasure" use="required"/>
1460 </xsd:complexType>
1461 <xsd:simpleType name="ST_PageBorderZOrder">
1462   <xsd:restriction base="xsd:string">
1463     <xsd:enumeration value="front"/>
1464     <xsd:enumeration value="back"/>

```

```

1465     </xsd:restriction>
1466 </xsd:simpleType>
1467 <xsd:simpleType name="ST_PageBorderDisplay">
1468     <xsd:restriction base="xsd:string">
1469         <xsd:enumeration value="allPages"/>
1470         <xsd:enumeration value="firstPage"/>
1471         <xsd:enumeration value="notFirstPage"/>
1472     </xsd:restriction>
1473 </xsd:simpleType>
1474 <xsd:simpleType name="ST_PageBorderOffset">
1475     <xsd:restriction base="xsd:string">
1476         <xsd:enumeration value="page"/>
1477         <xsd:enumeration value="text"/>
1478     </xsd:restriction>
1479 </xsd:simpleType>
1480 <xsd:complexType name="CT_PageBorders">
1481     <xsd:sequence>
1482         <xsd:element name="top" type="CT_TopPageBorder" minOccurs="0"/>
1483         <xsd:element name="left" type="CT_PageBorder" minOccurs="0"/>
1484         <xsd:element name="bottom" type="CT_BottomPageBorder" minOccurs="0"/>
1485         <xsd:element name="right" type="CT_PageBorder" minOccurs="0"/>
1486     </xsd:sequence>
1487     <xsd:attribute name="zOrder" type="ST_PageBorderZOrder" use="optional"/>
1488     <xsd:attribute name="display" type="ST_PageBorderDisplay" use="optional"/>
1489     <xsd:attribute name="offsetFrom" type="ST_PageBorderOffset" use="optional"/>
1490 </xsd:complexType>
1491 <xsd:complexType name="CT_PageBorder">
1492     <xsd:complexContent>
1493         <xsd:extension base="CT_Border">
1494             <xsd:attribute ref="r:id" use="optional"/>
1495         </xsd:extension>
1496     </xsd:complexContent>
1497 </xsd:complexType>
1498 <xsd:complexType name="CT_BottomPageBorder">
1499     <xsd:complexContent>
1500         <xsd:extension base="CT_PageBorder">
1501             <xsd:attribute ref="r:bottomLeft" use="optional"/>
1502             <xsd:attribute ref="r:bottomRight" use="optional"/>
1503         </xsd:extension>
1504     </xsd:complexContent>
1505 </xsd:complexType>
1506 <xsd:complexType name="CT_TopPageBorder">
1507     <xsd:complexContent>
1508         <xsd:extension base="CT_PageBorder">
1509             <xsd:attribute ref="r:topLeft" use="optional"/>
1510             <xsd:attribute ref="r:topRight" use="optional"/>
1511         </xsd:extension>
1512     </xsd:complexContent>
1513 </xsd:complexType>
1514 <xsd:simpleType name="ST_ChapterSep">
1515     <xsd:restriction base="xsd:string">
1516         <xsd:enumeration value="hyphen"/>
1517         <xsd:enumeration value="period"/>

```



```

1518         <xsd:enumeration value="colon"/>
1519         <xsd:enumeration value="emDash"/>
1520         <xsd:enumeration value="enDash"/>
1521     </xsd:restriction>
1522 </xsd:simpleType>
1523 <xsd:simpleType name="ST_LineNumberRestart">
1524     <xsd:restriction base="xsd:string">
1525         <xsd:enumeration value="newPage"/>
1526         <xsd:enumeration value="newSection"/>
1527         <xsd:enumeration value="continuous"/>
1528     </xsd:restriction>
1529 </xsd:simpleType>
1530 <xsd:complexType name="CT_LineNumber">
1531     <xsd:attribute name="countBy" type="ST_DecimalNumber" use="optional"/>
1532     <xsd:attribute name="start" type="ST_DecimalNumber" use="optional"/>
1533     <xsd:attribute name="distance" type="s:ST_TwipsMeasure" use="optional"/>
1534     <xsd:attribute name="restart" type="ST_LineNumberRestart" use="optional"/>
1535 </xsd:complexType>
1536 <xsd:complexType name="CT_PageNumber">
1537     <xsd:attribute name="fmt" type="ST_NumberFormat" use="optional"/>
1538     <xsd:attribute name="start" type="ST_DecimalNumber" use="optional"/>
1539     <xsd:attribute name="chapStyle" type="ST_DecimalNumber" use="optional"/>
1540     <xsd:attribute name="chapSep" type="ST_ChapterSep" use="optional"/>
1541 </xsd:complexType>
1542 <xsd:complexType name="CT_Column">
1543     <xsd:attribute name="w" type="s:ST_TwipsMeasure" use="optional"/>
1544     <xsd:attribute name="space" type="s:ST_TwipsMeasure" use="optional"/>
1545 </xsd:complexType>
1546 <xsd:complexType name="CT_Columns">
1547     <xsd:sequence minOccurs="0">
1548         <xsd:element name="col" type="CT_Column" maxOccurs="45"/>
1549     </xsd:sequence>
1550     <xsd:attribute name="equalWidth" type="s:ST_OnOff" use="optional"/>
1551     <xsd:attribute name="space" type="s:ST_TwipsMeasure" use="optional"/>
1552     <xsd:attribute name="num" type="ST_DecimalNumber" use="optional"/>
1553     <xsd:attribute name="sep" type="s:ST_OnOff" use="optional"/>
1554 </xsd:complexType>
1555 <xsd:simpleType name="ST_VerticalJc">
1556     <xsd:restriction base="xsd:string">
1557         <xsd:enumeration value="top"/>
1558         <xsd:enumeration value="center"/>
1559         <xsd:enumeration value="both"/>
1560         <xsd:enumeration value="bottom"/>
1561     </xsd:restriction>
1562 </xsd:simpleType>
1563 <xsd:complexType name="CT_VerticalJc">
1564     <xsd:attribute name="val" type="ST_VerticalJc" use="required"/>
1565 </xsd:complexType>
1566 <xsd:simpleType name="ST_DocGrid">
1567     <xsd:restriction base="xsd:string">
1568         <xsd:enumeration value="default"/>
1569         <xsd:enumeration value="lines"/>
1570         <xsd:enumeration value="linesAndChars"/>

```



```

1571     <xsd:enumeration value="snapToChars"/>
1572   </xsd:restriction>
1573 </xsd:simpleType>
1574 <xsd:complexType name="CT_DocGrid">
1575   <xsd:attribute name="type" type="ST_DocGrid"/>
1576   <xsd:attribute name="linePitch" type="ST_DecimalNumber"/>
1577   <xsd:attribute name="charSpace" type="ST_DecimalNumber"/>
1578 </xsd:complexType>
1579 <xsd:simpleType name="ST_HdrFtr">
1580   <xsd:restriction base="xsd:string">
1581     <xsd:enumeration value="even"/>
1582     <xsd:enumeration value="default"/>
1583     <xsd:enumeration value="first"/>
1584   </xsd:restriction>
1585 </xsd:simpleType>
1586 <xsd:simpleType name="ST_FtnEdn">
1587   <xsd:restriction base="xsd:string">
1588     <xsd:enumeration value="normal"/>
1589     <xsd:enumeration value="separator"/>
1590     <xsd:enumeration value="continuationSeparator"/>
1591     <xsd:enumeration value="continuationNotice"/>
1592   </xsd:restriction>
1593 </xsd:simpleType>
1594 <xsd:complexType name="CT_HdrFtrRef">
1595   <xsd:complexContent>
1596     <xsd:extension base="CT_Rel">
1597       <xsd:attribute name="type" type="ST_HdrFtr" use="required"/>
1598     </xsd:extension>
1599   </xsd:complexContent>
1600 </xsd:complexType>
1601 <xsd:group name="EG_HdrFtrReferences">
1602   <xsd:choice>
1603     <xsd:element name="headerReference" type="CT_HdrFtrRef" minOccurs="0"/>
1604     <xsd:element name="footerReference" type="CT_HdrFtrRef" minOccurs="0"/>
1605   </xsd:choice>
1606 </xsd:group>
1607 <xsd:complexType name="CT_HdrFtr">
1608   <xsd:group ref="EG_BlockLevelElt" minOccurs="1" maxOccurs="unbounded"/>
1609 </xsd:complexType>
1610 <xsd:group name="EG_SectPrContents">
1611   <xsd:sequence>
1612     <xsd:element name="footnotePr" type="CT_FtnProps" minOccurs="0"/>
1613     <xsd:element name="endnotePr" type="CT_EdnProps" minOccurs="0"/>
1614     <xsd:element name="type" type="CT_SectType" minOccurs="0"/>
1615     <xsd:element name="pgSz" type="CT_PageSz" minOccurs="0"/>
1616     <xsd:element name="pgMar" type="CT_PageMar" minOccurs="0"/>
1617     <xsd:element name="paperSrc" type="CT_PaperSource" minOccurs="0"/>
1618     <xsd:element name="pgBorders" type="CT_PageBorders" minOccurs="0"/>
1619     <xsd:element name="lnNumType" type="CT_LineNumber" minOccurs="0"/>
1620     <xsd:element name="pgNumType" type="CT_PageNumber" minOccurs="0"/>
1621     <xsd:element name="cols" type="CT_Columns" minOccurs="0"/>
1622     <xsd:element name="formProt" type="CT_OnOff" minOccurs="0"/>
1623     <xsd:element name="vAlign" type="CT_VerticalJc" minOccurs="0"/>

```

```

1624     <xsd:element name="noEndnote" type="CT_OnOff" minOccurs="0"/>
1625     <xsd:element name="titlePg" type="CT_OnOff" minOccurs="0"/>
1626     <xsd:element name="textDirection" type="CT_TextDirection" minOccurs="0"/>
1627     <xsd:element name="bidi" type="CT_OnOff" minOccurs="0"/>
1628     <xsd:element name="rtlGutter" type="CT_OnOff" minOccurs="0"/>
1629     <xsd:element name="docGrid" type="CT_DocGrid" minOccurs="0"/>
1630     <xsd:element name="printerSettings" type="CT_Rel" minOccurs="0"/>
1631   </xsd:sequence>
1632 </xsd:group>
1633 <xsd:attributeGroup name="AG_SectPrAttributes">
1634   <xsd:attribute name="rsidRPr" type="ST_LongHexNumber"/>
1635   <xsd:attribute name="rsidDel" type="ST_LongHexNumber"/>
1636   <xsd:attribute name="rsidR" type="ST_LongHexNumber"/>
1637   <xsd:attribute name="rsidSect" type="ST_LongHexNumber"/>
1638 </xsd:attributeGroup>
1639 <xsd:complexType name="CT_SectPrBase">
1640   <xsd:sequence>
1641     <xsd:group ref="EG_SectPrContents" minOccurs="0"/>
1642   </xsd:sequence>
1643   <xsd:attributeGroup ref="AG_SectPrAttributes"/>
1644 </xsd:complexType>
1645 <xsd:complexType name="CT_SectPr">
1646   <xsd:sequence>
1647     <xsd:group ref="EG_HdrFtrReferences" minOccurs="0" maxOccurs="6"/>
1648     <xsd:group ref="EG_SectPrContents" minOccurs="0"/>
1649     <xsd:element name="sectPrChange" type="CT_SectPrChange" minOccurs="0"/>
1650   </xsd:sequence>
1651   <xsd:attributeGroup ref="AG_SectPrAttributes"/>
1652 </xsd:complexType>
1653 <xsd:simpleType name="ST_BrType">
1654   <xsd:restriction base="xsd:string">
1655     <xsd:enumeration value="page"/>
1656     <xsd:enumeration value="column"/>
1657     <xsd:enumeration value="textWrapping"/>
1658   </xsd:restriction>
1659 </xsd:simpleType>
1660 <xsd:simpleType name="ST_BrClear">
1661   <xsd:restriction base="xsd:string">
1662     <xsd:enumeration value="none"/>
1663     <xsd:enumeration value="left"/>
1664     <xsd:enumeration value="right"/>
1665     <xsd:enumeration value="all"/>
1666   </xsd:restriction>
1667 </xsd:simpleType>
1668 <xsd:complexType name="CT_Br">
1669   <xsd:attribute name="type" type="ST_BrType" use="optional"/>
1670   <xsd:attribute name="clear" type="ST_BrClear" use="optional"/>
1671 </xsd:complexType>
1672 <xsd:simpleType name="ST_PTabAlignment">
1673   <xsd:restriction base="xsd:string">
1674     <xsd:enumeration value="left"/>
1675     <xsd:enumeration value="center"/>
1676     <xsd:enumeration value="right"/>

```

```

1677     </xsd:restriction>
1678 </xsd:simpleType>
1679 <xsd:simpleType name="ST_PTabRelativeTo">
1680     <xsd:restriction base="xsd:string">
1681         <xsd:enumeration value="margin"/>
1682         <xsd:enumeration value="indent"/>
1683     </xsd:restriction>
1684 </xsd:simpleType>
1685 <xsd:simpleType name="ST_PTabLeader">
1686     <xsd:restriction base="xsd:string">
1687         <xsd:enumeration value="none"/>
1688         <xsd:enumeration value="dot"/>
1689         <xsd:enumeration value="hyphen"/>
1690         <xsd:enumeration value="underscore"/>
1691         <xsd:enumeration value="middleDot"/>
1692     </xsd:restriction>
1693 </xsd:simpleType>
1694 <xsd:complexType name="CT_PTab">
1695     <xsd:attribute name="alignment" type="ST_PTabAlignment" use="required"/>
1696     <xsd:attribute name="relativeTo" type="ST_PTabRelativeTo" use="required"/>
1697     <xsd:attribute name="leader" type="ST_PTabLeader" use="required"/>
1698 </xsd:complexType>
1699 <xsd:complexType name="CT_Sym">
1700     <xsd:attribute name="font" type="s:ST_String"/>
1701     <xsd:attribute name="char" type="ST_ShortHexNumber"/>
1702 </xsd:complexType>
1703 <xsd:simpleType name="ST_ProofErr">
1704     <xsd:restriction base="xsd:string">
1705         <xsd:enumeration value="spellStart"/>
1706         <xsd:enumeration value="spellEnd"/>
1707         <xsd:enumeration value="gramStart"/>
1708         <xsd:enumeration value="gramEnd"/>
1709     </xsd:restriction>
1710 </xsd:simpleType>
1711 <xsd:complexType name="CT_ProofErr">
1712     <xsd:attribute name="type" type="ST_ProofErr" use="required"/>
1713 </xsd:complexType>
1714 <xsd:simpleType name="ST_EdGrp">
1715     <xsd:restriction base="xsd:string">
1716         <xsd:enumeration value="none"/>
1717         <xsd:enumeration value="everyone"/>
1718         <xsd:enumeration value="administrators"/>
1719         <xsd:enumeration value="contributors"/>
1720         <xsd:enumeration value="editors"/>
1721         <xsd:enumeration value="owners"/>
1722         <xsd:enumeration value="current"/>
1723     </xsd:restriction>
1724 </xsd:simpleType>
1725 <xsd:complexType name="CT_Perm">
1726     <xsd:attribute name="id" type="s:ST_String" use="required"/>
1727     <xsd:attribute name="displacedByCustomXml" type="ST_DisplacedByCustomXml" use="optional"/>
1728 </xsd:complexType>
1729 <xsd:complexType name="CT_PermStart">

```

```

1730     <xsd:complexContent>
1731       <xsd:extension base="CT_Perm">
1732         <xsd:attribute name="edGrp" type="ST_EdGrp" use="optional"/>
1733         <xsd:attribute name="ed" type="s:ST_String" use="optional"/>
1734         <xsd:attribute name="colFirst" type="ST_DecimalNumber" use="optional"/>
1735         <xsd:attribute name="colLast" type="ST_DecimalNumber" use="optional"/>
1736       </xsd:extension>
1737     </xsd:complexContent>
1738   </xsd:complexType>
1739   <xsd:complexType name="CT_Text">
1740     <xsd:simpleContent>
1741       <xsd:extension base="s:ST_String">
1742         <xsd:attribute ref="xml:space" use="optional"/>
1743       </xsd:extension>
1744     </xsd:simpleContent>
1745   </xsd:complexType>
1746   <xsd:group name="EG_RunInnerContent">
1747     <xsd:choice>
1748       <xsd:element name="br" type="CT_Br"/>
1749       <xsd:element name="t" type="CT_Text"/>
1750       <xsd:element name="contentPart" type="CT_Rel"/>
1751       <xsd:element name="delText" type="CT_Text"/>
1752       <xsd:element name="instrText" type="CT_Text"/>
1753       <xsd:element name="delInstrText" type="CT_Text"/>
1754       <xsd:element name="noBreakHyphen" type="CT_Empty"/>
1755       <xsd:element name="softHyphen" type="CT_Empty" minOccurs="0"/>
1756       <xsd:element name="dayShort" type="CT_Empty" minOccurs="0"/>
1757       <xsd:element name="monthShort" type="CT_Empty" minOccurs="0"/>
1758       <xsd:element name="yearShort" type="CT_Empty" minOccurs="0"/>
1759       <xsd:element name="dayLong" type="CT_Empty" minOccurs="0"/>
1760       <xsd:element name="monthLong" type="CT_Empty" minOccurs="0"/>
1761       <xsd:element name="yearLong" type="CT_Empty" minOccurs="0"/>
1762       <xsd:element name="annotationRef" type="CT_Empty" minOccurs="0"/>
1763       <xsd:element name="footnoteRef" type="CT_Empty" minOccurs="0"/>
1764       <xsd:element name="endnoteRef" type="CT_Empty" minOccurs="0"/>
1765       <xsd:element name="separator" type="CT_Empty" minOccurs="0"/>
1766       <xsd:element name="continuationSeparator" type="CT_Empty" minOccurs="0"/>
1767       <xsd:element name="sym" type="CT_Sym" minOccurs="0"/>
1768       <xsd:element name="pgNum" type="CT_Empty" minOccurs="0"/>
1769       <xsd:element name="cr" type="CT_Empty" minOccurs="0"/>
1770       <xsd:element name="tab" type="CT_Empty" minOccurs="0"/>
1771       <xsd:element name="object" type="CT_Object"/>
1772       <xsd:element name="pict" type="CT_Picture"/>
1773       <xsd:element name="fldChar" type="CT_FldChar"/>
1774       <xsd:element name="ruby" type="CT_Ruby"/>
1775       <xsd:element name="footnoteReference" type="CT_FtnEdnRef"/>
1776       <xsd:element name="endnoteReference" type="CT_FtnEdnRef"/>
1777       <xsd:element name="commentReference" type="CT_Markup"/>
1778       <xsd:element name="drawing" type="CT_Drawing"/>
1779       <xsd:element name="ptab" type="CT_PTab" minOccurs="0"/>
1780       <xsd:element name="lastRenderedPageBreak" type="CT_Empty" minOccurs="0" maxOccurs="1"/>
1781     </xsd:choice>
1782   </xsd:group>

```

```

1783 <xsd:complexType name="CT_R">
1784   <xsd:sequence>
1785     <xsd:group ref="EG_RPr" minOccurs="0"/>
1786     <xsd:group ref="EG_RunInnerContent" minOccurs="0" maxOccurs="unbounded"/>
1787   </xsd:sequence>
1788   <xsd:attribute name="rsidRPr" type="ST_LongHexNumber"/>
1789   <xsd:attribute name="rsidDel" type="ST_LongHexNumber"/>
1790   <xsd:attribute name="rsidR" type="ST_LongHexNumber"/>
1791 </xsd:complexType>
1792 <xsd:simpleType name="ST_Hint">
1793   <xsd:restriction base="xsd:string">
1794     <xsd:enumeration value="default"/>
1795     <xsd:enumeration value="eastAsia"/>
1796     <xsd:enumeration value="cs"/>
1797   </xsd:restriction>
1798 </xsd:simpleType>
1799 <xsd:simpleType name="ST_Theme">
1800   <xsd:restriction base="xsd:string">
1801     <xsd:enumeration value="majorEastAsia"/>
1802     <xsd:enumeration value="majorBidi"/>
1803     <xsd:enumeration value="majorAscii"/>
1804     <xsd:enumeration value="majorHAnsi"/>
1805     <xsd:enumeration value="minorEastAsia"/>
1806     <xsd:enumeration value="minorBidi"/>
1807     <xsd:enumeration value="minorAscii"/>
1808     <xsd:enumeration value="minorHAnsi"/>
1809   </xsd:restriction>
1810 </xsd:simpleType>
1811 <xsd:complexType name="CT_Fonts">
1812   <xsd:attribute name="hint" type="ST_Hint"/>
1813   <xsd:attribute name="ascii" type="s:ST_String"/>
1814   <xsd:attribute name="hAnsi" type="s:ST_String"/>
1815   <xsd:attribute name="eastAsia" type="s:ST_String"/>
1816   <xsd:attribute name="cs" type="s:ST_String"/>
1817   <xsd:attribute name="asciiTheme" type="ST_Theme"/>
1818   <xsd:attribute name="hAnsiTheme" type="ST_Theme"/>
1819   <xsd:attribute name="eastAsiaTheme" type="ST_Theme"/>
1820   <xsd:attribute name="cstheme" type="ST_Theme"/>
1821 </xsd:complexType>
1822 <xsd:group name="EG_RPrBase">
1823   <xsd:sequence>
1824     <xsd:element name="rStyle" type="CT_String" minOccurs="0"/>
1825     <xsd:element name="rFonts" type="CT_Fonts" minOccurs="0"/>
1826     <xsd:element name="b" type="CT_OnOff" minOccurs="0"/>
1827     <xsd:element name="bCs" type="CT_OnOff" minOccurs="0"/>
1828     <xsd:element name="i" type="CT_OnOff" minOccurs="0"/>
1829     <xsd:element name="iCs" type="CT_OnOff" minOccurs="0"/>
1830     <xsd:element name="caps" type="CT_OnOff" minOccurs="0"/>
1831     <xsd:element name="smallCaps" type="CT_OnOff" minOccurs="0"/>
1832     <xsd:element name="strike" type="CT_OnOff" minOccurs="0"/>
1833     <xsd:element name="dstrike" type="CT_OnOff" minOccurs="0"/>
1834     <xsd:element name="outline" type="CT_OnOff" minOccurs="0"/>
1835     <xsd:element name="shadow" type="CT_OnOff" minOccurs="0"/>

```

```

1836     <xsd:element name="emboss" type="CT_OnOff" minOccurs="0"/>
1837     <xsd:element name="imprint" type="CT_OnOff" minOccurs="0"/>
1838     <xsd:element name="noProof" type="CT_OnOff" minOccurs="0"/>
1839     <xsd:element name="snapToGrid" type="CT_OnOff" minOccurs="0"/>
1840     <xsd:element name="vanish" type="CT_OnOff" minOccurs="0"/>
1841     <xsd:element name="webHidden" type="CT_OnOff" minOccurs="0"/>
1842     <xsd:element name="color" type="CT_Color" minOccurs="0"/>
1843     <xsd:element name="spacing" type="CT_SignedTwipsMeasure" minOccurs="0"/>
1844     <xsd:element name="w" type="CT_TextScale" minOccurs="0"/>
1845     <xsd:element name="kern" type="CT_HpsMeasure" minOccurs="0"/>
1846     <xsd:element name="position" type="CT_SignedHpsMeasure" minOccurs="0"/>
1847     <xsd:element name="sz" type="CT_HpsMeasure" minOccurs="0"/>
1848     <xsd:element name="szCs" type="CT_HpsMeasure" minOccurs="0"/>
1849     <xsd:element name="highlight" type="CT_Highlight" minOccurs="0"/>
1850     <xsd:element name="u" type="CT_Underline" minOccurs="0"/>
1851     <xsd:element name="effect" type="CT_TextEffect" minOccurs="0"/>
1852     <xsd:element name="bdr" type="CT_Border" minOccurs="0"/>
1853     <xsd:element name="shd" type="CT_Shadow" minOccurs="0"/>
1854     <xsd:element name="fitText" type="CT_FitText" minOccurs="0"/>
1855     <xsd:element name="vertAlign" type="CT_VerticalAlignRun" minOccurs="0"/>
1856     <xsd:element name="rtl" type="CT_OnOff" minOccurs="0"/>
1857     <xsd:element name="cs" type="CT_OnOff" minOccurs="0"/>
1858     <xsd:element name="em" type="CT_Em" minOccurs="0"/>
1859     <xsd:element name="lang" type="CT_Language" minOccurs="0"/>
1860     <xsd:element name="eastAsianLayout" type="CT_EastAsianLayout" minOccurs="0"/>
1861     <xsd:element name="specVanish" type="CT_OnOff" minOccurs="0"/>
1862     <xsd:element name="oMath" type="CT_OnOff" minOccurs="0"/>
1863   </xsd:sequence>
1864 </xsd:group>
1865 <xsd:group name="EG_RPrContent">
1866   <xsd:sequence>
1867     <xsd:group ref="EG_RPrBase" minOccurs="0"/>
1868     <xsd:element name="rPrChange" type="CT_RPrChange" minOccurs="0"/>
1869   </xsd:sequence>
1870 </xsd:group>
1871 <xsd:complexType name="CT_RPr">
1872   <xsd:sequence>
1873     <xsd:group ref="EG_RPrContent" minOccurs="0"/>
1874   </xsd:sequence>
1875 </xsd:complexType>
1876 <xsd:group name="EG_RPr">
1877   <xsd:sequence>
1878     <xsd:element name="rPr" type="CT_RPr" minOccurs="0"/>
1879   </xsd:sequence>
1880 </xsd:group>
1881 <xsd:group name="EG_RPrMath">
1882   <xsd:choice>
1883     <xsd:group ref="EG_RPr"/>
1884     <xsd:element name="ins" type="CT_MathCtrlIns"/>
1885     <xsd:element name="del" type="CT_MathCtrlDel"/>
1886   </xsd:choice>
1887 </xsd:group>
1888 <xsd:complexType name="CT_MathCtrlIns">

```



```

1889 <xsd:complexContent>
1890   <xsd:extension base="CT_TrackChange">
1891     <xsd:choice minOccurs="0">
1892       <xsd:element name="del" type="CT_RPrChange" minOccurs="1"/>
1893       <xsd:element name="rPr" type="CT_RPr" minOccurs="1"/>
1894     </xsd:choice>
1895   </xsd:extension>
1896 </xsd:complexContent>
1897 </xsd:complexType>
1898 <xsd:complexType name="CT_MathCtrlDel">
1899   <xsd:complexContent>
1900     <xsd:extension base="CT_TrackChange">
1901       <xsd:choice minOccurs="0">
1902         <xsd:element name="rPr" type="CT_RPr" minOccurs="1"/>
1903       </xsd:choice>
1904     </xsd:extension>
1905   </xsd:complexContent>
1906 </xsd:complexType>
1907 <xsd:complexType name="CT_RPrOriginal">
1908   <xsd:sequence>
1909     <xsd:group ref="EG_RPrBase" minOccurs="0" maxOccurs="unbounded"/>
1910   </xsd:sequence>
1911 </xsd:complexType>
1912 <xsd:complexType name="CT_ParaRPrOriginal">
1913   <xsd:sequence>
1914     <xsd:group ref="EG_ParaRPrTrackChanges" minOccurs="0"/>
1915     <xsd:group ref="EG_RPrBase" minOccurs="0" maxOccurs="unbounded"/>
1916   </xsd:sequence>
1917 </xsd:complexType>
1918 <xsd:complexType name="CT_ParaRPr">
1919   <xsd:sequence>
1920     <xsd:group ref="EG_ParaRPrTrackChanges" minOccurs="0"/>
1921     <xsd:group ref="EG_RPrBase" minOccurs="0"/>
1922     <xsd:element name="rPrChange" type="CT_ParaRPrChange" minOccurs="0"/>
1923   </xsd:sequence>
1924 </xsd:complexType>
1925 <xsd:group name="EG_ParaRPrTrackChanges">
1926   <xsd:sequence>
1927     <xsd:element name="ins" type="CT_TrackChange" minOccurs="0"/>
1928     <xsd:element name="del" type="CT_TrackChange" minOccurs="0"/>
1929     <xsd:element name="moveFrom" type="CT_TrackChange" minOccurs="0"/>
1930     <xsd:element name="moveTo" type="CT_TrackChange" minOccurs="0"/>
1931   </xsd:sequence>
1932 </xsd:group>
1933 <xsd:complexType name="CT_AltChunk">
1934   <xsd:sequence>
1935     <xsd:element name="altChunkPr" type="CT_AltChunkPr" minOccurs="0" maxOccurs="1"/>
1936   </xsd:sequence>
1937   <xsd:attribute ref="r:id" use="optional"/>
1938 </xsd:complexType>
1939 <xsd:complexType name="CT_AltChunkPr">
1940   <xsd:sequence>
1941     <xsd:element name="matchSrc" type="CT_OnOff" minOccurs="0" maxOccurs="1"/>

```

```

1942     </xsd:sequence>
1943 </xsd:complexType>
1944 <xsd:simpleType name="ST_RubyAlign">
1945     <xsd:restriction base="xsd:string">
1946         <xsd:enumeration value="center"/>
1947         <xsd:enumeration value="distributeLetter"/>
1948         <xsd:enumeration value="distributeSpace"/>
1949         <xsd:enumeration value="left"/>
1950         <xsd:enumeration value="right"/>
1951         <xsd:enumeration value="rightVertical"/>
1952     </xsd:restriction>
1953 </xsd:simpleType>
1954 <xsd:complexType name="CT_RubyAlign">
1955     <xsd:attribute name="val" type="ST_RubyAlign" use="required"/>
1956 </xsd:complexType>
1957 <xsd:complexType name="CT_RubyPr">
1958     <xsd:sequence>
1959         <xsd:element name="rubyAlign" type="CT_RubyAlign"/>
1960         <xsd:element name="hps" type="CT_HpsMeasure"/>
1961         <xsd:element name="hpsRaise" type="CT_HpsMeasure"/>
1962         <xsd:element name="hpsBaseText" type="CT_HpsMeasure"/>
1963         <xsd:element name="lid" type="CT_Lang"/>
1964         <xsd:element name="dirty" type="CT_OnOff" minOccurs="0"/>
1965     </xsd:sequence>
1966 </xsd:complexType>
1967 <xsd:group name="EG_RubyContent">
1968     <xsd:choice>
1969         <xsd:element name="r" type="CT_R"/>
1970         <xsd:group ref="EG_RunLevelElts" minOccurs="0" maxOccurs="unbounded"/>
1971     </xsd:choice>
1972 </xsd:group>
1973 <xsd:complexType name="CT_RubyContent">
1974     <xsd:group ref="EG_RubyContent" minOccurs="0" maxOccurs="unbounded"/>
1975 </xsd:complexType>
1976 <xsd:complexType name="CT_Ruby">
1977     <xsd:sequence>
1978         <xsd:element name="rubyPr" type="CT_RubyPr"/>
1979         <xsd:element name="rt" type="CT_RubyContent"/>
1980         <xsd:element name="rubyBase" type="CT_RubyContent"/>
1981     </xsd:sequence>
1982 </xsd:complexType>
1983 <xsd:simpleType name="ST_Lock">
1984     <xsd:restriction base="xsd:string">
1985         <xsd:enumeration value="sdtLocked"/>
1986         <xsd:enumeration value="contentLocked"/>
1987         <xsd:enumeration value="unlocked"/>
1988         <xsd:enumeration value="sdtContentLocked"/>
1989     </xsd:restriction>
1990 </xsd:simpleType>
1991 <xsd:complexType name="CT_Lock">
1992     <xsd:attribute name="val" type="ST_Lock"/>
1993 </xsd:complexType>
1994 <xsd:complexType name="CT_SdtListItem">

```



```

1995     <xsd:attribute name="displayText" type="s:ST_String"/>
1996     <xsd:attribute name="value" type="s:ST_String"/>
1997 </xsd:complexType>
1998 <xsd:simpleType name="ST_SdtDateMappingType">
1999     <xsd:restriction base="xsd:string">
2000         <xsd:enumeration value="text"/>
2001         <xsd:enumeration value="date"/>
2002         <xsd:enumeration value="dateTime"/>
2003     </xsd:restriction>
2004 </xsd:simpleType>
2005 <xsd:complexType name="CT_SdtDateMappingType">
2006     <xsd:attribute name="val" type="ST_SdtDateMappingType"/>
2007 </xsd:complexType>
2008 <xsd:complexType name="CT_CalendarType">
2009     <xsd:attribute name="val" type="s:ST_CalendarType"/>
2010 </xsd:complexType>
2011 <xsd:complexType name="CT_SdtDate">
2012     <xsd:sequence>
2013         <xsd:element name="dateFormat" type="CT_String" minOccurs="0"/>
2014         <xsd:element name="lid" type="CT_Lang" minOccurs="0"/>
2015         <xsd:element name="storeMappedDataAs" type="CT_SdtDateMappingType" minOccurs="0"/>
2016         <xsd:element name="calendar" type="CT_CalendarType" minOccurs="0"/>
2017     </xsd:sequence>
2018     <xsd:attribute name="fullDate" type="ST_DateTime" use="optional"/>
2019 </xsd:complexType>
2020 <xsd:complexType name="CT_SdtComboBox">
2021     <xsd:sequence>
2022         <xsd:element name="listItem" type="CT_SdtListItem" minOccurs="0" maxOccurs="unbounded"/>
2023     </xsd:sequence>
2024     <xsd:attribute name="lastValue" type="s:ST_String" use="optional"/>
2025 </xsd:complexType>
2026 <xsd:complexType name="CT_SdtDocPart">
2027     <xsd:sequence>
2028         <xsd:element name="docPartGallery" type="CT_String" minOccurs="0"/>
2029         <xsd:element name="docPartCategory" type="CT_String" minOccurs="0"/>
2030         <xsd:element name="docPartUnique" type="CT_OnOff" minOccurs="0"/>
2031     </xsd:sequence>
2032 </xsd:complexType>
2033 <xsd:complexType name="CT_SdtDropDownList">
2034     <xsd:sequence>
2035         <xsd:element name="listItem" type="CT_SdtListItem" minOccurs="0" maxOccurs="unbounded"/>
2036     </xsd:sequence>
2037     <xsd:attribute name="lastValue" type="s:ST_String" use="optional"/>
2038 </xsd:complexType>
2039 <xsd:complexType name="CT_Placeholder">
2040     <xsd:sequence>
2041         <xsd:element name="docPart" type="CT_String"/>
2042     </xsd:sequence>
2043 </xsd:complexType>
2044 <xsd:complexType name="CT_SdtText">
2045     <xsd:attribute name="multiline" type="s:ST_OnOff"/>
2046 </xsd:complexType>
2047 <xsd:complexType name="CT_DataBinding">

```

```

2048     <xsd:attribute name="prefixMappings" type="s:ST_String"/>
2049     <xsd:attribute name="xpath" type="s:ST_String" use="required"/>
2050     <xsd:attribute name="storeItemID" type="s:ST_String" use="required"/>
2051 </xsd:complexType>
2052 <xsd:complexType name="CT_SdtPr">
2053     <xsd:choice maxOccurs="unbounded">
2054         <xsd:element name="rPr" type="CT_RPr" minOccurs="0"/>
2055         <xsd:element name="alias" type="CT_String" minOccurs="0"/>
2056         <xsd:element name="label" type="CT_DecimalNumber" minOccurs="0"/>
2057         <xsd:element name="tabIndex" type="CT_UnsignedDecimalNumber" minOccurs="0"/>
2058         <xsd:element name="lock" type="CT_Lock" minOccurs="0"/>
2059         <xsd:element name="placeholder" type="CT_Placeholder" minOccurs="0"/>
2060         <xsd:element name="showingPlcHdr" type="CT_OnOff" minOccurs="0"/>
2061         <xsd:element name="dataBinding" type="CT_DataBinding" minOccurs="0"/>
2062         <xsd:element name="temporary" type="CT_OnOff" minOccurs="0"/>
2063         <xsd:element name="id" type="CT_DecimalNumber" minOccurs="0"/>
2064         <xsd:element name="tag" type="CT_String" minOccurs="0"/>
2065         <xsd:choice minOccurs="0" maxOccurs="1">
2066             <xsd:element name="equation" type="CT_Empty"/>
2067             <xsd:element name="comboBox" type="CT_SdtComboBox"/>
2068             <xsd:element name="date" type="CT_SdtDate"/>
2069             <xsd:element name="docPartObj" type="CT_SdtDocPart"/>
2070             <xsd:element name="docPartList" type="CT_SdtDocPart"/>
2071             <xsd:element name="dropDownList" type="CT_SdtDropDownList"/>
2072             <xsd:element name="picture" type="CT_Empty"/>
2073             <xsd:element name="richText" type="CT_Empty"/>
2074             <xsd:element name="text" type="CT_SdtText"/>
2075             <xsd:element name="citation" type="CT_Empty"/>
2076             <xsd:element name="group" type="CT_Empty"/>
2077             <xsd:element name="bibliography" type="CT_Empty"/>
2078         </xsd:choice>
2079     </xsd:choice>
2080 </xsd:complexType>
2081 <xsd:complexType name="CT_SdtEndPr">
2082     <xsd:choice maxOccurs="unbounded">
2083         <xsd:element name="rPr" type="CT_RPr" minOccurs="0"/>
2084     </xsd:choice>
2085 </xsd:complexType>
2086 <xsd:group name="EG_ContentRunContent">
2087     <xsd:choice>
2088         <xsd:element name="customXml" type="CT_CustomXmlRun"/>
2089         <xsd:element name="smartTag" type="CT_SmartTagRun"/>
2090         <xsd:element name="sdt" type="CT_SdtRun"/>
2091         <xsd:element name="dir" type="CT_DirContentRun"/>
2092         <xsd:element name="bdo" type="CT_BdoContentRun"/>
2093         <xsd:element name="r" type="CT_R"/>
2094         <xsd:group ref="EG_RunLevelElts" minOccurs="0" maxOccurs="unbounded"/>
2095     </xsd:choice>
2096 </xsd:group>
2097 <xsd:complexType name="CT_DirContentRun">
2098     <xsd:group ref="EG_PContent" minOccurs="0" maxOccurs="unbounded"/>
2099     <xsd:attribute name="val" type="ST_Direction" use="optional"/>
2100 </xsd:complexType>

```

```

2101 <xsd:complexType name="CT_BdoContentRun">
2102   <xsd:group ref="EG_PContent" minOccurs="0" maxOccurs="unbounded"/>
2103   <xsd:attribute name="val" type="ST_Direction" use="optional"/>
2104 </xsd:complexType>
2105 <xsd:simpleType name="ST_Direction">
2106   <xsd:restriction base="xsd:string">
2107     <xsd:enumeration value="ltr"/>
2108     <xsd:enumeration value="rtl"/>
2109   </xsd:restriction>
2110 </xsd:simpleType>
2111 <xsd:complexType name="CT_SdtContentRun">
2112   <xsd:group ref="EG_PContent" minOccurs="0" maxOccurs="unbounded"/>
2113 </xsd:complexType>
2114 <xsd:group name="EG_ContentBlockContent">
2115   <xsd:choice>
2116     <xsd:element name="customXml" type="CT_CustomXmlBlock"/>
2117     <xsd:element name="sdt" type="CT_SdtBlock"/>
2118     <xsd:element name="p" type="CT_P" minOccurs="0" maxOccurs="unbounded"/>
2119     <xsd:element name="tbl" type="CT_Tbl" minOccurs="0" maxOccurs="unbounded"/>
2120     <xsd:group ref="EG_RunLevelElts" minOccurs="0" maxOccurs="unbounded"/>
2121   </xsd:choice>
2122 </xsd:group>
2123 <xsd:complexType name="CT_SdtContentBlock">
2124   <xsd:group ref="EG_ContentBlockContent" minOccurs="0" maxOccurs="unbounded"/>
2125 </xsd:complexType>
2126 <xsd:group name="EG_ContentRowContent">
2127   <xsd:choice>
2128     <xsd:element name="tr" type="CT_Row" minOccurs="0" maxOccurs="unbounded"/>
2129     <xsd:element name="customXml" type="CT_CustomXmlRow"/>
2130     <xsd:element name="sdt" type="CT_SdtRow"/>
2131     <xsd:group ref="EG_RunLevelElts" minOccurs="0" maxOccurs="unbounded"/>
2132   </xsd:choice>
2133 </xsd:group>
2134 <xsd:complexType name="CT_SdtContentRow">
2135   <xsd:group ref="EG_ContentRowContent" minOccurs="0" maxOccurs="unbounded"/>
2136 </xsd:complexType>
2137 <xsd:group name="EG_ContentCellContent">
2138   <xsd:choice>
2139     <xsd:element name="tc" type="CT_Tc" minOccurs="0" maxOccurs="unbounded"/>
2140     <xsd:element name="customXml" type="CT_CustomXmlCell"/>
2141     <xsd:element name="sdt" type="CT_SdtCell"/>
2142     <xsd:group ref="EG_RunLevelElts" minOccurs="0" maxOccurs="unbounded"/>
2143   </xsd:choice>
2144 </xsd:group>
2145 <xsd:complexType name="CT_SdtContentCell">
2146   <xsd:group ref="EG_ContentCellContent" minOccurs="0" maxOccurs="unbounded"/>
2147 </xsd:complexType>
2148 <xsd:complexType name="CT_SdtBlock">
2149   <xsd:sequence>
2150     <xsd:element name="sdtPr" type="CT_SdtPr" minOccurs="0" maxOccurs="1"/>
2151     <xsd:element name="sdtEndPr" type="CT_SdtEndPr" minOccurs="0" maxOccurs="1"/>
2152     <xsd:element name="sdtContent" type="CT_SdtContentBlock" minOccurs="0" maxOccurs="1"/>
2153   </xsd:sequence>

```

```

2154 </xsd:complexType>
2155 <xsd:complexType name="CT_SdtRun">
2156   <xsd:sequence>
2157     <xsd:element name="sdtPr" type="CT_SdtPr" minOccurs="0" maxOccurs="1"/>
2158     <xsd:element name="sdtEndPr" type="CT_SdtEndPr" minOccurs="0" maxOccurs="1"/>
2159     <xsd:element name="sdtContent" type="CT_SdtContentRun" minOccurs="0" maxOccurs="1"/>
2160   </xsd:sequence>
2161 </xsd:complexType>
2162 <xsd:complexType name="CT_SdtCell">
2163   <xsd:sequence>
2164     <xsd:element name="sdtPr" type="CT_SdtPr" minOccurs="0" maxOccurs="1"/>
2165     <xsd:element name="sdtEndPr" type="CT_SdtEndPr" minOccurs="0" maxOccurs="1"/>
2166     <xsd:element name="sdtContent" type="CT_SdtContentCell" minOccurs="0" maxOccurs="1"/>
2167   </xsd:sequence>
2168 </xsd:complexType>
2169 <xsd:complexType name="CT_SdtRow">
2170   <xsd:sequence>
2171     <xsd:element name="sdtPr" type="CT_SdtPr" minOccurs="0" maxOccurs="1"/>
2172     <xsd:element name="sdtEndPr" type="CT_SdtEndPr" minOccurs="0" maxOccurs="1"/>
2173     <xsd:element name="sdtContent" type="CT_SdtContentRow" minOccurs="0" maxOccurs="1"/>
2174   </xsd:sequence>
2175 </xsd:complexType>
2176 <xsd:complexType name="CT_Attr">
2177   <xsd:attribute name="uri" type="s:ST String"/>
2178   <xsd:attribute name="name" type="s:ST String" use="required"/>
2179   <xsd:attribute name="val" type="s:ST String" use="required"/>
2180 </xsd:complexType>
2181 <xsd:complexType name="CT_CustomXmlRun">
2182   <xsd:sequence>
2183     <xsd:element name="customXmlPr" type="CT_CustomXmlPr" minOccurs="0" maxOccurs="1"/>
2184     <xsd:group ref="EG_PContent" minOccurs="0" maxOccurs="unbounded"/>
2185   </xsd:sequence>
2186   <xsd:attribute name="uri" type="s:ST String"/>
2187   <xsd:attribute name="element" type="s:ST String" use="required"/>
2188 </xsd:complexType>
2189 <xsd:complexType name="CT_SmartTagRun">
2190   <xsd:sequence>
2191     <xsd:element name="smartTagPr" type="CT_SmartTagPr" minOccurs="0" maxOccurs="1"/>
2192     <xsd:group ref="EG_PContent" minOccurs="0" maxOccurs="unbounded"/>
2193   </xsd:sequence>
2194   <xsd:attribute name="uri" type="s:ST String"/>
2195   <xsd:attribute name="element" type="s:ST String" use="required"/>
2196 </xsd:complexType>
2197 <xsd:complexType name="CT_CustomXmlBlock">
2198   <xsd:sequence>
2199     <xsd:element name="customXmlPr" type="CT_CustomXmlPr" minOccurs="0" maxOccurs="1"/>
2200     <xsd:group ref="EG_ContentBlockContent" minOccurs="0" maxOccurs="unbounded"/>
2201   </xsd:sequence>
2202   <xsd:attribute name="uri" type="s:ST String"/>
2203   <xsd:attribute name="element" type="s:ST String" use="required"/>
2204 </xsd:complexType>
2205 <xsd:complexType name="CT_CustomXmlPr">
2206   <xsd:sequence>

```

```

2207     <xsd:element name="placeholder" type="CT_String" minOccurs="0"/>
2208     <xsd:element name="attr" type="CT_Attr" minOccurs="0" maxOccurs="unbounded"/>
2209   </xsd:sequence>
2210 </xsd:complexType>
2211 <xsd:complexType name="CT_CustomXmlRow">
2212   <xsd:sequence>
2213     <xsd:element name="customXmlPr" type="CT_CustomXmlPr" minOccurs="0" maxOccurs="1"/>
2214     <xsd:group ref="EG_ContentRowContent" minOccurs="0" maxOccurs="unbounded"/>
2215   </xsd:sequence>
2216   <xsd:attribute name="uri" type="s:ST_String"/>
2217   <xsd:attribute name="element" type="s:ST_String" use="required"/>
2218 </xsd:complexType>
2219 <xsd:complexType name="CT_CustomXmlCell">
2220   <xsd:sequence>
2221     <xsd:element name="customXmlPr" type="CT_CustomXmlPr" minOccurs="0" maxOccurs="1"/>
2222     <xsd:group ref="EG_ContentCellContent" minOccurs="0" maxOccurs="unbounded"/>
2223   </xsd:sequence>
2224   <xsd:attribute name="uri" type="s:ST_String"/>
2225   <xsd:attribute name="element" type="s:ST_String" use="required"/>
2226 </xsd:complexType>
2227 <xsd:complexType name="CT_SmartTagPr">
2228   <xsd:sequence>
2229     <xsd:element name="attr" type="CT_Attr" minOccurs="0" maxOccurs="unbounded"/>
2230   </xsd:sequence>
2231 </xsd:complexType>
2232 <xsd:group name="EG_PContent">
2233   <xsd:choice>
2234     <xsd:group ref="EG_ContentRunContent" minOccurs="0" maxOccurs="unbounded"/>
2235     <xsd:element name="fldSimple" type="CT_SimpleField" minOccurs="0" maxOccurs="unbounded"/>
2236     <xsd:element name="hyperlink" type="CT_Hyperlink"/>
2237     <xsd:element name="subDoc" type="CT_Rel"/>
2238   </xsd:choice>
2239 </xsd:group>
2240 <xsd:complexType name="CT_P">
2241   <xsd:sequence>
2242     <xsd:element name="pPr" type="CT_PPr" minOccurs="0"/>
2243     <xsd:group ref="EG_PContent" minOccurs="0" maxOccurs="unbounded"/>
2244   </xsd:sequence>
2245   <xsd:attribute name="rsidRPr" type="ST_LongHexNumber"/>
2246   <xsd:attribute name="rsidR" type="ST_LongHexNumber"/>
2247   <xsd:attribute name="rsidDel" type="ST_LongHexNumber"/>
2248   <xsd:attribute name="rsidP" type="ST_LongHexNumber"/>
2249   <xsd:attribute name="rsidRDefault" type="ST_LongHexNumber"/>
2250 </xsd:complexType>
2251 <xsd:simpleType name="ST_TblWidth">
2252   <xsd:restriction base="xsd:string">
2253     <xsd:enumeration value="nil"/>
2254     <xsd:enumeration value="pct"/>
2255     <xsd:enumeration value="dxa"/>
2256     <xsd:enumeration value="auto"/>
2257   </xsd:restriction>
2258 </xsd:simpleType>
2259 <xsd:complexType name="CT_Height">

```

```

2260     <xsd:attribute name="val" type="s:ST_TwipsMeasure"/>
2261     <xsd:attribute name="hRule" type="ST_HeightRule"/>
2262 </xsd:complexType>
2263 <xsd:simpleType name="ST_MeasurementOrPercent">
2264     <xsd:union memberTypes="ST_DecimalNumberOrPercent s:ST_UniversalMeasure"/>
2265 </xsd:simpleType>
2266 <xsd:complexType name="CT_TblWidth">
2267     <xsd:attribute name="w" type="ST_MeasurementOrPercent"/>
2268     <xsd:attribute name="type" type="ST_TblWidth"/>
2269 </xsd:complexType>
2270 <xsd:complexType name="CT_TblGridCol">
2271     <xsd:attribute name="w" type="s:ST_TwipsMeasure"/>
2272 </xsd:complexType>
2273 <xsd:complexType name="CT_TblGridBase">
2274     <xsd:sequence>
2275         <xsd:element name="gridCol" type="CT_TblGridCol" minOccurs="0" maxOccurs="unbounded"/>
2276     </xsd:sequence>
2277 </xsd:complexType>
2278 <xsd:complexType name="CT_TblGrid">
2279     <xsd:complexContent>
2280         <xsd:extension base="CT_TblGridBase">
2281             <xsd:sequence>
2282                 <xsd:element name="tblGridChange" type="CT_TblGridChange" minOccurs="0"/>
2283             </xsd:sequence>
2284         </xsd:extension>
2285     </xsd:complexContent>
2286 </xsd:complexType>
2287 <xsd:complexType name="CT_TcBorders">
2288     <xsd:sequence>
2289         <xsd:element name="top" type="CT_Border" minOccurs="0"/>
2290         <xsd:element name="start" type="CT_Border" minOccurs="0"/>
2291         <xsd:element name="left" type="CT_Border" minOccurs="0"/>
2292         <xsd:element name="bottom" type="CT_Border" minOccurs="0"/>
2293         <xsd:element name="end" type="CT_Border" minOccurs="0"/>
2294         <xsd:element name="right" type="CT_Border" minOccurs="0"/>
2295         <xsd:element name="insideH" type="CT_Border" minOccurs="0"/>
2296         <xsd:element name="insideV" type="CT_Border" minOccurs="0"/>
2297         <xsd:element name="tl2br" type="CT_Border" minOccurs="0"/>
2298         <xsd:element name="tr2bl" type="CT_Border" minOccurs="0"/>
2299     </xsd:sequence>
2300 </xsd:complexType>
2301 <xsd:complexType name="CT_TcMar">
2302     <xsd:sequence>
2303         <xsd:element name="top" type="CT_TblWidth" minOccurs="0" maxOccurs="1"/>
2304         <xsd:element name="start" type="CT_TblWidth" minOccurs="0" maxOccurs="1"/>
2305         <xsd:element name="left" type="CT_TblWidth" minOccurs="0"/>
2306         <xsd:element name="bottom" type="CT_TblWidth" minOccurs="0" maxOccurs="1"/>
2307         <xsd:element name="end" type="CT_TblWidth" minOccurs="0" maxOccurs="1"/>
2308         <xsd:element name="right" type="CT_TblWidth" minOccurs="0"/>
2309     </xsd:sequence>
2310 </xsd:complexType>
2311 <xsd:simpleType name="ST_Merge">
2312     <xsd:restriction base="xsd:string">

```



```

2313     <xsd:enumeration value="continue"/>
2314     <xsd:enumeration value="restart"/>
2315   </xsd:restriction>
2316 </xsd:simpleType>
2317 <xsd:complexType name="CT_VMerge">
2318   <xsd:attribute name="val" type="ST_Merge"/>
2319 </xsd:complexType>
2320 <xsd:complexType name="CT_HMerge">
2321   <xsd:attribute name="val" type="ST_Merge"/>
2322 </xsd:complexType>
2323 <xsd:complexType name="CT_TcPrBase">
2324   <xsd:sequence>
2325     <xsd:element name="cnfStyle" type="CT_Cnf" minOccurs="0" maxOccurs="1"/>
2326     <xsd:element name="tcW" type="CT_TblWidth" minOccurs="0" maxOccurs="1"/>
2327     <xsd:element name="gridSpan" type="CT_DecimalNumber" minOccurs="0"/>
2328     <xsd:element name="hMerge" type="CT_HMerge" minOccurs="0"/>
2329     <xsd:element name="vMerge" type="CT_VMerge" minOccurs="0"/>
2330     <xsd:element name="tcBorders" type="CT_TcBorders" minOccurs="0" maxOccurs="1"/>
2331     <xsd:element name="shd" type="CT_Shdt" minOccurs="0"/>
2332     <xsd:element name="noWrap" type="CT_OnOff" minOccurs="0"/>
2333     <xsd:element name="tcMar" type="CT_TcMar" minOccurs="0" maxOccurs="1"/>
2334     <xsd:element name="textDirection" type="CT_TextDirection" minOccurs="0" maxOccurs="1"/>
2335     <xsd:element name="tcFitText" type="CT_OnOff" minOccurs="0" maxOccurs="1"/>
2336     <xsd:element name="vAlign" type="CT_VerticalJc" minOccurs="0"/>
2337     <xsd:element name="hideMark" type="CT_OnOff" minOccurs="0"/>
2338     <xsd:element name="headers" type="CT-Headers" minOccurs="0"/>
2339   </xsd:sequence>
2340 </xsd:complexType>
2341 <xsd:complexType name="CT_TcPr">
2342   <xsd:complexContent>
2343     <xsd:extension base="CT_TcPrInner">
2344       <xsd:sequence>
2345         <xsd:element name="tcPrChange" type="CT_TcPrChange" minOccurs="0"/>
2346       </xsd:sequence>
2347     </xsd:extension>
2348   </xsd:complexContent>
2349 </xsd:complexType>
2350 <xsd:complexType name="CT_TcPrInner">
2351   <xsd:complexContent>
2352     <xsd:extension base="CT_TcPrBase">
2353       <xsd:sequence>
2354         <xsd:group ref="EG_CellMarkupElements" minOccurs="0" maxOccurs="1"/>
2355       </xsd:sequence>
2356     </xsd:extension>
2357   </xsd:complexContent>
2358 </xsd:complexType>
2359 <xsd:complexType name="CT_Tc">
2360   <xsd:sequence>
2361     <xsd:element name="tcPr" type="CT_TcPr" minOccurs="0" maxOccurs="1"/>
2362     <xsd:group ref="EG_BlockLevelElts" minOccurs="1" maxOccurs="unbounded"/>
2363   </xsd:sequence>
2364   <xsd:attribute name="id" type="s:ST_String" use="optional"/>
2365 </xsd:complexType>

```

```

2366 <xsd:simpleType name="ST_Cnf">
2367   <xsd:restriction base="xsd:string">
2368     <xsd:length value="12"/>
2369     <xsd:pattern value="[01]*"/>
2370   </xsd:restriction>
2371 </xsd:simpleType>
2372 <xsd:complexType name="CT_Cnf">
2373   <xsd:attribute name="val" type="ST_Cnf"/>
2374   <xsd:attribute name="firstRow" type="s:ST_OnOff"/>
2375   <xsd:attribute name="lastRow" type="s:ST_OnOff"/>
2376   <xsd:attribute name="firstColumn" type="s:ST_OnOff"/>
2377   <xsd:attribute name="lastColumn" type="s:ST_OnOff"/>
2378   <xsd:attribute name="oddVBand" type="s:ST_OnOff"/>
2379   <xsd:attribute name="evenVBand" type="s:ST_OnOff"/>
2380   <xsd:attribute name="oddHBand" type="s:ST_OnOff"/>
2381   <xsd:attribute name="evenHBand" type="s:ST_OnOff"/>
2382   <xsd:attribute name="firstRowFirstColumn" type="s:ST_OnOff"/>
2383   <xsd:attribute name="firstRowLastColumn" type="s:ST_OnOff"/>
2384   <xsd:attribute name="lastRowFirstColumn" type="s:ST_OnOff"/>
2385   <xsd:attribute name="lastRowLastColumn" type="s:ST_OnOff"/>
2386 </xsd:complexType>
2387 <xsd:complexType name="CT_Headers">
2388   <xsd:sequence minOccurs="0" maxOccurs="unbounded">
2389     <xsd:element name="header" type="CT_String"/>
2390   </xsd:sequence>
2391 </xsd:complexType>
2392 <xsd:complexType name="CT_TrPrBase">
2393   <xsd:choice maxOccurs="unbounded">
2394     <xsd:element name="cnfStyle" type="CT_Cnf" minOccurs="0" maxOccurs="1"/>
2395     <xsd:element name="divId" type="CT_DecimalNumber" minOccurs="0"/>
2396     <xsd:element name="gridBefore" type="CT_DecimalNumber" minOccurs="0"/>
2397     <xsd:element name="gridAfter" type="CT_DecimalNumber" minOccurs="0"/>
2398     <xsd:element name="wBefore" type="CT_TblWidth" minOccurs="0" maxOccurs="1"/>
2399     <xsd:element name="wAfter" type="CT_TblWidth" minOccurs="0" maxOccurs="1"/>
2400     <xsd:element name="cantsplit" type="CT_OnOff" minOccurs="0"/>
2401     <xsd:element name="trHeight" type="CT_Height" minOccurs="0"/>
2402     <xsd:element name="tblHeader" type="CT_OnOff" minOccurs="0"/>
2403     <xsd:element name="tblCellSpacing" type="CT_TblWidth" minOccurs="0" maxOccurs="1"/>
2404     <xsd:element name="jc" type="CT_JcTable" minOccurs="0" maxOccurs="1"/>
2405     <xsd:element name="hidden" type="CT_OnOff" minOccurs="0"/>
2406   </xsd:choice>
2407 </xsd:complexType>
2408 <xsd:complexType name="CT_TrPr">
2409   <xsd:complexContent>
2410     <xsd:extension base="CT_TrPrBase">
2411       <xsd:sequence>
2412         <xsd:element name="ins" type="CT_TrackChange" minOccurs="0"/>
2413         <xsd:element name="del" type="CT_TrackChange" minOccurs="0"/>
2414         <xsd:element name="trPrChange" type="CT_TrPrChange" minOccurs="0"/>
2415       </xsd:sequence>
2416     </xsd:extension>
2417   </xsd:complexContent>
2418 </xsd:complexType>

```



```

2419 <xsd:complexType name="CT_Row">
2420   <xsd:sequence>
2421     <xsd:element name="tblPrEx" type="CT_TblPrEx" minOccurs="0" maxOccurs="1"/>
2422     <xsd:element name="trPr" type="CT_TrPr" minOccurs="0" maxOccurs="1"/>
2423     <xsd:group ref="EG_ContentCellContent" minOccurs="0" maxOccurs="unbounded"/>
2424   </xsd:sequence>
2425   <xsd:attribute name="rsidRPr" type="ST_LongHexNumber"/>
2426   <xsd:attribute name="rsidR" type="ST_LongHexNumber"/>
2427   <xsd:attribute name="rsidDel" type="ST_LongHexNumber"/>
2428   <xsd:attribute name="rsidTr" type="ST_LongHexNumber"/>
2429 </xsd:complexType>
2430 <xsd:simpleType name="ST_TblLayoutType">
2431   <xsd:restriction base="xsd:string">
2432     <xsd:enumeration value="fixed"/>
2433     <xsd:enumeration value="autofit"/>
2434   </xsd:restriction>
2435 </xsd:simpleType>
2436 <xsd:complexType name="CT_TblLayoutType">
2437   <xsd:attribute name="type" type="ST_TblLayoutType"/>
2438 </xsd:complexType>
2439 <xsd:simpleType name="ST_TblOverlap">
2440   <xsd:restriction base="xsd:string">
2441     <xsd:enumeration value="never"/>
2442     <xsd:enumeration value="overlap"/>
2443   </xsd:restriction>
2444 </xsd:simpleType>
2445 <xsd:complexType name="CT_TblOverlap">
2446   <xsd:attribute name="val" type="ST_TblOverlap" use="required"/>
2447 </xsd:complexType>
2448 <xsd:complexType name="CT_TblPPr">
2449   <xsd:attribute name="leftFromText" type="s:ST_TwipsMeasure"/>
2450   <xsd:attribute name="rightFromText" type="s:ST_TwipsMeasure"/>
2451   <xsd:attribute name="topFromText" type="s:ST_TwipsMeasure"/>
2452   <xsd:attribute name="bottomFromText" type="s:ST_TwipsMeasure"/>
2453   <xsd:attribute name="vertAnchor" type="ST_VAnchor"/>
2454   <xsd:attribute name="horzAnchor" type="ST_HAnchor"/>
2455   <xsd:attribute name="tblpXSpec" type="s:ST_XAlign"/>
2456   <xsd:attribute name="tblpX" type="ST_SignedTwipsMeasure"/>
2457   <xsd:attribute name="tblpYSpec" type="s:ST_YAlign"/>
2458   <xsd:attribute name="tblpY" type="ST_SignedTwipsMeasure"/>
2459 </xsd:complexType>
2460 <xsd:complexType name="CT_TblCellMar">
2461   <xsd:sequence>
2462     <xsd:element name="top" type="CT_TblWidth" minOccurs="0" maxOccurs="1"/>
2463     <xsd:element name="start" type="CT_TblWidth" minOccurs="0" maxOccurs="1"/>
2464     <xsd:element name="left" type="CT_TblWidth" minOccurs="0"/>
2465     <xsd:element name="bottom" type="CT_TblWidth" minOccurs="0" maxOccurs="1"/>
2466     <xsd:element name="end" type="CT_TblWidth" minOccurs="0" maxOccurs="1"/>
2467     <xsd:element name="right" type="CT_TblWidth" minOccurs="0"/>
2468   </xsd:sequence>
2469 </xsd:complexType>
2470 <xsd:complexType name="CT_TblBorders">
2471   <xsd:sequence>

```

```

2472     <xsd:element name="top" type="CT_Border" minOccurs="0"/>
2473     <xsd:element name="start" type="CT_Border" minOccurs="0"/>
2474     <xsd:element name="left" type="CT_Border" minOccurs="0"/>
2475     <xsd:element name="bottom" type="CT_Border" minOccurs="0"/>
2476     <xsd:element name="end" type="CT_Border" minOccurs="0"/>
2477     <xsd:element name="right" type="CT_Border" minOccurs="0"/>
2478     <xsd:element name="insideH" type="CT_Border" minOccurs="0"/>
2479     <xsd:element name="insideV" type="CT_Border" minOccurs="0"/>
2480   </xsd:sequence>
2481 </xsd:complexType>
2482 <xsd:complexType name="CT_TblPrBase">
2483   <xsd:sequence>
2484     <xsd:element name="tblStyle" type="CT_String" minOccurs="0"/>
2485     <xsd:element name="tblpPr" type="CT_TblPPr" minOccurs="0" maxOccurs="1"/>
2486     <xsd:element name="tblOverlap" type="CT_TblOverlap" minOccurs="0" maxOccurs="1"/>
2487     <xsd:element name="bidiVisual" type="CT_OnOff" minOccurs="0" maxOccurs="1"/>
2488     <xsd:element name="tblStyleRowBandSize" type="CT_DecimalNumber" minOccurs="0"
2489       maxOccurs="1"/>
2490     <xsd:element name="tblStyleColBandSize" type="CT_DecimalNumber" minOccurs="0"
2491       maxOccurs="1"/>
2492     <xsd:element name="tblW" type="CT_TblWidth" minOccurs="0" maxOccurs="1"/>
2493     <xsd:element name="jc" type="CT_JcTable" minOccurs="0" maxOccurs="1"/>
2494     <xsd:element name="tblCellSpacing" type="CT_TblWidth" minOccurs="0" maxOccurs="1"/>
2495     <xsd:element name="tblInd" type="CT_TblWidth" minOccurs="0" maxOccurs="1"/>
2496     <xsd:element name="tblBorders" type="CT_TblBorders" minOccurs="0" maxOccurs="1"/>
2497     <xsd:element name="shd" type="CT_Shd" minOccurs="0" maxOccurs="1"/>
2498     <xsd:element name="tblLayout" type="CT_TblLayoutType" minOccurs="0" maxOccurs="1"/>
2499     <xsd:element name="tblCellMar" type="CT_TblCellMar" minOccurs="0" maxOccurs="1"/>
2500     <xsd:element name="tblLook" type="CT_TblLook" minOccurs="0" maxOccurs="1"/>
2501     <xsd:element name="tblCaption" type="CT_String" minOccurs="0" maxOccurs="1"/>
2502     <xsd:element name="tblDescription" type="CT_String" minOccurs="0" maxOccurs="1"/>
2503   </xsd:sequence>
2504 </xsd:complexType>
2505 <xsd:complexType name="CT_TblPr">
2506   <xsd:complexContent>
2507     <xsd:extension base="CT_TblPrBase">
2508       <xsd:sequence>
2509         <xsd:element name="tblPrChange" type="CT_TblPrChange" minOccurs="0"/>
2510       </xsd:sequence>
2511     </xsd:extension>
2512   </xsd:complexContent>
2513 </xsd:complexType>
2514 <xsd:complexType name="CT_TblPrExBase">
2515   <xsd:sequence>
2516     <xsd:element name="tblW" type="CT_TblWidth" minOccurs="0" maxOccurs="1"/>
2517     <xsd:element name="jc" type="CT_JcTable" minOccurs="0" maxOccurs="1"/>
2518     <xsd:element name="tblCellSpacing" type="CT_TblWidth" minOccurs="0" maxOccurs="1"/>
2519     <xsd:element name="tblInd" type="CT_TblWidth" minOccurs="0" maxOccurs="1"/>
2520     <xsd:element name="tblBorders" type="CT_TblBorders" minOccurs="0" maxOccurs="1"/>
2521     <xsd:element name="shd" type="CT_Shd" minOccurs="0" maxOccurs="1"/>
2522     <xsd:element name="tblLayout" type="CT_TblLayoutType" minOccurs="0" maxOccurs="1"/>
2523     <xsd:element name="tblCellMar" type="CT_TblCellMar" minOccurs="0" maxOccurs="1"/>
2524     <xsd:element name="tblLook" type="CT_TblLook" minOccurs="0" maxOccurs="1"/>

```

```

2525     </xsd:sequence>
2526 </xsd:complexType>
2527 <xsd:complexType name="CT_TblPrEx">
2528     <xsd:complexContent>
2529         <xsd:extension base="CT_TblPrExBase">
2530             <xsd:sequence>
2531                 <xsd:element name="tblPrExChange" type="CT_TblPrExChange" minOccurs="0"/>
2532             </xsd:sequence>
2533         </xsd:extension>
2534     </xsd:complexContent>
2535 </xsd:complexType>
2536 <xsd:complexType name="CT_Tbl">
2537     <xsd:sequence>
2538         <xsd:group ref="EG_RangeMarkupElements" minOccurs="0" maxOccurs="unbounded"/>
2539         <xsd:element name="tblPr" type="CT_TblPr"/>
2540         <xsd:element name="tblGrid" type="CT_TblGrid"/>
2541         <xsd:group ref="EG_ContentRowContent" minOccurs="0" maxOccurs="unbounded"/>
2542     </xsd:sequence>
2543 </xsd:complexType>
2544 <xsd:complexType name="CT_TblLook">
2545     <xsd:attribute name="firstRow" type="s:ST_OnOff"/>
2546     <xsd:attribute name="lastRow" type="s:ST_OnOff"/>
2547     <xsd:attribute name="firstColumn" type="s:ST_OnOff"/>
2548     <xsd:attribute name="lastColumn" type="s:ST_OnOff"/>
2549     <xsd:attribute name="noHBand" type="s:ST_OnOff"/>
2550     <xsd:attribute name="noVBand" type="s:ST_OnOff"/>
2551     <xsd:attribute name="val" type="ST_ShortHexNumber"/>
2552 </xsd:complexType>
2553 <xsd:simpleType name="ST_FtnPos">
2554     <xsd:restriction base="xsd:string">
2555         <xsd:enumeration value="pageBottom"/>
2556         <xsd:enumeration value="beneathText"/>
2557         <xsd:enumeration value="sectEnd"/>
2558         <xsd:enumeration value="docEnd"/>
2559     </xsd:restriction>
2560 </xsd:simpleType>
2561 <xsd:complexType name="CT_FtnPos">
2562     <xsd:attribute name="val" type="ST_FtnPos" use="required"/>
2563 </xsd:complexType>
2564 <xsd:simpleType name="ST_EdnPos">
2565     <xsd:restriction base="xsd:string">
2566         <xsd:enumeration value="sectEnd"/>
2567         <xsd:enumeration value="docEnd"/>
2568     </xsd:restriction>
2569 </xsd:simpleType>
2570 <xsd:complexType name="CT_EdnPos">
2571     <xsd:attribute name="val" type="ST_EdnPos" use="required"/>
2572 </xsd:complexType>
2573 <xsd:complexType name="CT_NumFmt">
2574     <xsd:attribute name="val" type="ST_NumberFormat" use="required"/>
2575     <xsd:attribute name="format" type="s:ST_String" use="optional"/>
2576 </xsd:complexType>
2577 <xsd:simpleType name="ST_RestartNumber">

```

```

2578     <xsd:restriction base="xsd:string">
2579         <xsd:enumeration value="continuous"/>
2580         <xsd:enumeration value="eachSect"/>
2581         <xsd:enumeration value="eachPage"/>
2582     </xsd:restriction>
2583 </xsd:simpleType>
2584 <xsd:complexType name="CT_NumRestart">
2585     <xsd:attribute name="val" type="ST_RestartNumber" use="required"/>
2586 </xsd:complexType>
2587 <xsd:complexType name="CT_FtnEdnRef">
2588     <xsd:attribute name="customMarkFollows" type="s:ST_OnOff" use="optional"/>
2589     <xsd:attribute name="id" use="required" type="ST_DecimalNumber"/>
2590 </xsd:complexType>
2591 <xsd:complexType name="CT_FtnEdnSepRef">
2592     <xsd:attribute name="id" type="ST_DecimalNumber" use="required"/>
2593 </xsd:complexType>
2594 <xsd:complexType name="CT_FtnEdn">
2595     <xsd:sequence>
2596         <xsd:group ref="EG_BlockLevelElts" minOccurs="1" maxOccurs="unbounded"/>
2597     </xsd:sequence>
2598     <xsd:attribute name="type" type="ST_FtnEdn" use="optional"/>
2599     <xsd:attribute name="id" type="ST_DecimalNumber" use="required"/>
2600 </xsd:complexType>
2601 <xsd:group name="EG_FtnEdnNumProps">
2602     <xsd:sequence>
2603         <xsd:element name="numStart" type="CT_DecimalNumber" minOccurs="0"/>
2604         <xsd:element name="numRestart" type="CT_NumRestart" minOccurs="0"/>
2605     </xsd:sequence>
2606 </xsd:group>
2607 <xsd:complexType name="CT_FtnProps">
2608     <xsd:sequence>
2609         <xsd:element name="pos" type="CT_FtnPos" minOccurs="0"/>
2610         <xsd:element name="numFmt" type="CT_NumFmt" minOccurs="0"/>
2611         <xsd:group ref="EG_FtnEdnNumProps" minOccurs="0"/>
2612     </xsd:sequence>
2613 </xsd:complexType>
2614 <xsd:complexType name="CT_EdnProps">
2615     <xsd:sequence>
2616         <xsd:element name="pos" type="CT_EdnPos" minOccurs="0"/>
2617         <xsd:element name="numFmt" type="CT_NumFmt" minOccurs="0"/>
2618         <xsd:group ref="EG_FtnEdnNumProps" minOccurs="0"/>
2619     </xsd:sequence>
2620 </xsd:complexType>
2621 <xsd:complexType name="CT_FtnDocProps">
2622     <xsd:complexContent>
2623         <xsd:extension base="CT_FtnProps">
2624             <xsd:sequence>
2625                 <xsd:element name="footnote" type="CT_FtnEdnSepRef" minOccurs="0" maxOccurs="3"/>
2626             </xsd:sequence>
2627         </xsd:extension>
2628     </xsd:complexContent>
2629 </xsd:complexType>
2630 <xsd:complexType name="CT_EdnDocProps">

```

```

2631     <xsd:complexContent>
2632         <xsd:extension base="CT_EdnProps">
2633             <xsd:sequence>
2634                 <xsd:element name="endnote" type="CT_FtnEdnSepRef" minOccurs="0" maxOccurs="3"/>
2635             </xsd:sequence>
2636         </xsd:extension>
2637     </xsd:complexContent>
2638 </xsd:complexType>
2639 <xsd:complexType name="CT_RecipientData">
2640     <xsd:sequence>
2641         <xsd:element name="active" type="CT_OnOff" minOccurs="0"/>
2642         <xsd:element name="column" type="CT_DecimalNumber" minOccurs="1"/>
2643         <xsd:element name="uniqueTag" type="CT_Base64Binary" minOccurs="1"/>
2644     </xsd:sequence>
2645 </xsd:complexType>
2646 <xsd:complexType name="CT_Base64Binary">
2647     <xsd:attribute name="val" type="xsd:base64Binary" use="required">
2648     </xsd:attribute>
2649 </xsd:complexType>
2650 <xsd:complexType name="CT_Recipients">
2651     <xsd:sequence>
2652         <xsd:element name="recipientData" type="CT_RecipientData" minOccurs="1"
2653             maxOccurs="unbounded"/>
2654     </xsd:sequence>
2655 </xsd:complexType>
2656 <xsd:element name="recipients" type="CT_Recipients"/>
2657 <xsd:complexType name="CT_OdsoFieldMapData">
2658     <xsd:sequence>
2659         <xsd:element name="type" type="CT_MailMergeOdsoFMDFieldType" minOccurs="0"/>
2660         <xsd:element name="name" type="CT_String" minOccurs="0"/>
2661         <xsd:element name="mappedName" type="CT_String" minOccurs="0"/>
2662         <xsd:element name="column" type="CT_DecimalNumber" minOccurs="0"/>
2663         <xsd:element name="lid" type="CT_Lang" minOccurs="0"/>
2664         <xsd:element name="dynamicAddress" type="CT_OnOff" minOccurs="0"/>
2665     </xsd:sequence>
2666 </xsd:complexType>
2667 <xsd:simpleType name="ST_MailMergeSourceType">
2668     <xsd:restriction base="xsd:string">
2669         <xsd:enumeration value="database"/>
2670         <xsd:enumeration value="addressBook"/>
2671         <xsd:enumeration value="document1"/>
2672         <xsd:enumeration value="document2"/>
2673         <xsd:enumeration value="text"/>
2674         <xsd:enumeration value="email"/>
2675         <xsd:enumeration value="native"/>
2676         <xsd:enumeration value="legacy"/>
2677         <xsd:enumeration value="master"/>
2678     </xsd:restriction>
2679 </xsd:simpleType>
2680 <xsd:complexType name="CT_MailMergeSourceType">
2681     <xsd:attribute name="val" use="required" type="ST_MailMergeSourceType"/>
2682 </xsd:complexType>
2683 <xsd:complexType name="CT_Odso">

```

```

2684     <xsd:sequence>
2685         <xsd:element name="udl" type="CT_String" minOccurs="0"/>
2686         <xsd:element name="table" type="CT_String" minOccurs="0"/>
2687         <xsd:element name="src" type="CT_Rel" minOccurs="0"/>
2688         <xsd:element name="colDelim" type="CT_DecimalNumber" minOccurs="0"/>
2689         <xsd:element name="type" type="CT_MailMergeSourceType" minOccurs="0"/>
2690         <xsd:element name="fHdr" type="CT_OnOff" minOccurs="0"/>
2691         <xsd:element name="fieldMapData" type="CT_OdsoFieldMapData" minOccurs="0"
2692             maxOccurs="unbounded"/>
2693         <xsd:element name="recipientData" type="CT_Rel" minOccurs="0" maxOccurs="unbounded"/>
2694     </xsd:sequence>
2695 </xsd:complexType>
2696 <xsd:complexType name="CT_MailMerge">
2697     <xsd:sequence>
2698         <xsd:element name="mainDocumentType" type="CT_MailMergeDocType" minOccurs="1"/>
2699         <xsd:element name="linkToQuery" type="CT_OnOff" minOccurs="0"/>
2700         <xsd:element name="dataType" type="CT_MailMergeDataType" minOccurs="1"/>
2701         <xsd:element name="connectString" type="CT_String" minOccurs="0"/>
2702         <xsd:element name="query" type="CT_String" minOccurs="0"/>
2703         <xsd:element name="dataSource" type="CT_Rel" minOccurs="0"/>
2704         <xsd:element name="headerSource" type="CT_Rel" minOccurs="0"/>
2705         <xsd:element name="doNotSuppressBlankLines" type="CT_OnOff" minOccurs="0"/>
2706         <xsd:element name="destination" type="CT_MailMergeDest" minOccurs="0"/>
2707         <xsd:element name="addressFieldName" type="CT_String" minOccurs="0"/>
2708         <xsd:element name="mailSubject" type="CT_String" minOccurs="0"/>
2709         <xsd:element name="mailAsAttachment" type="CT_OnOff" minOccurs="0"/>
2710         <xsd:element name="viewMergedData" type="CT_OnOff" minOccurs="0"/>
2711         <xsd:element name="activeRecord" type="CT_DecimalNumber" minOccurs="0"/>
2712         <xsd:element name="checkErrors" type="CT_DecimalNumber" minOccurs="0"/>
2713         <xsd:element name="odso" type="CT_Odso" minOccurs="0"/>
2714     </xsd:sequence>
2715 </xsd:complexType>
2716 <xsd:simpleType name="ST_TargetScreenSz">
2717     <xsd:restriction base="xsd:string">
2718         <xsd:enumeration value="544x376"/>
2719         <xsd:enumeration value="640x480"/>
2720         <xsd:enumeration value="720x512"/>
2721         <xsd:enumeration value="800x600"/>
2722         <xsd:enumeration value="1024x768"/>
2723         <xsd:enumeration value="1152x882"/>
2724         <xsd:enumeration value="1152x900"/>
2725         <xsd:enumeration value="1280x1024"/>
2726         <xsd:enumeration value="1600x1200"/>
2727         <xsd:enumeration value="1800x1440"/>
2728         <xsd:enumeration value="1920x1200"/>
2729     </xsd:restriction>
2730 </xsd:simpleType>
2731 <xsd:complexType name="CT_TargetScreenSz">
2732     <xsd:attribute name="val" type="ST_TargetScreenSz" use="required"/>
2733 </xsd:complexType>
2734 <xsd:complexType name="CT_Compat">
2735     <xsd:sequence>
2736         <xsd:element name="useSingleBorderforContiguousCells" type="CT_OnOff" minOccurs="0"/>

```



2737 <xsd:element name="wpJustification" type="CT\_OnOff" minOccurs="0"/>  
 2738 <xsd:element name="noTabHangInd" type="CT\_OnOff" minOccurs="0"/>  
 2739 <xsd:element name="noLeading" type="CT\_OnOff" minOccurs="0"/>  
 2740 <xsd:element name="spaceForUL" type="CT\_OnOff" minOccurs="0"/>  
 2741 <xsd:element name="noColumnBalance" type="CT\_OnOff" minOccurs="0"/>  
 2742 <xsd:element name="balanceSingleByteDoubleByteWidth" type="CT\_OnOff" minOccurs="0"/>  
 2743 <xsd:element name="noExtraLineSpacing" type="CT\_OnOff" minOccurs="0"/>  
 2744 <xsd:element name="doNotLeaveBackslashAlone" type="CT\_OnOff" minOccurs="0"/>  
 2745 <xsd:element name="ulTrailSpace" type="CT\_OnOff" minOccurs="0"/>  
 2746 <xsd:element name="doNotExpandShiftReturn" type="CT\_OnOff" minOccurs="0"/>  
 2747 <xsd:element name="spacingInWholePoints" type="CT\_OnOff" minOccurs="0"/>  
 2748 <xsd:element name="lineWrapLikeWord6" type="CT\_OnOff" minOccurs="0"/>  
 2749 <xsd:element name="printBodyTextBeforeHeader" type="CT\_OnOff" minOccurs="0"/>  
 2750 <xsd:element name="printColBlack" type="CT\_OnOff" minOccurs="0"/>  
 2751 <xsd:element name="wpSpaceWidth" type="CT\_OnOff" minOccurs="0"/>  
 2752 <xsd:element name="showBreaksInFrames" type="CT\_OnOff" minOccurs="0"/>  
 2753 <xsd:element name="subFontBySize" type="CT\_OnOff" minOccurs="0"/>  
 2754 <xsd:element name="suppressBottomSpacing" type="CT\_OnOff" minOccurs="0"/>  
 2755 <xsd:element name="suppressTopSpacing" type="CT\_OnOff" minOccurs="0"/>  
 2756 <xsd:element name="suppressSpacingAtTopOfPage" type="CT\_OnOff" minOccurs="0"/>  
 2757 <xsd:element name="suppressTopSpacingWP" type="CT\_OnOff" minOccurs="0"/>  
 2758 <xsd:element name="suppressSpBFAfterPgBrk" type="CT\_OnOff" minOccurs="0"/>  
 2759 <xsd:element name="swapBordersFacingPages" type="CT\_OnOff" minOccurs="0"/>  
 2760 <xsd:element name="convMailMergeEsc" type="CT\_OnOff" minOccurs="0"/>  
 2761 <xsd:element name="truncateFontHeightsLikeWP6" type="CT\_OnOff" minOccurs="0"/>  
 2762 <xsd:element name="mwSmallCaps" type="CT\_OnOff" minOccurs="0"/>  
 2763 <xsd:element name="usePrinterMetrics" type="CT\_OnOff" minOccurs="0"/>  
 2764 <xsd:element name="doNotSuppressParagraphBorders" type="CT\_OnOff" minOccurs="0"/>  
 2765 <xsd:element name="wrapTrailSpaces" type="CT\_OnOff" minOccurs="0"/>  
 2766 <xsd:element name="footnoteLayoutLikeWW8" type="CT\_OnOff" minOccurs="0"/>  
 2767 <xsd:element name="shapeLayoutLikeWW8" type="CT\_OnOff" minOccurs="0"/>  
 2768 <xsd:element name="alignTablesRowByRow" type="CT\_OnOff" minOccurs="0"/>  
 2769 <xsd:element name="forgetLastTabAlignment" type="CT\_OnOff" minOccurs="0"/>  
 2770 <xsd:element name="adjustLineHeightInTable" type="CT\_OnOff" minOccurs="0"/>  
 2771 <xsd:element name="autoSpaceLikeWord95" type="CT\_OnOff" minOccurs="0"/>  
 2772 <xsd:element name="noSpaceRaiseLower" type="CT\_OnOff" minOccurs="0"/>  
 2773 <xsd:element name="doNotUseHTMLParagraphAutoSpacing" type="CT\_OnOff" minOccurs="0"/>  
 2774 <xsd:element name="layoutRawTableWidth" type="CT\_OnOff" minOccurs="0"/>  
 2775 <xsd:element name="layoutTableRowsApart" type="CT\_OnOff" minOccurs="0"/>  
 2776 <xsd:element name="useWord97LineBreakRules" type="CT\_OnOff" minOccurs="0"/>  
 2777 <xsd:element name="doNotBreakWrappedTables" type="CT\_OnOff" minOccurs="0"/>  
 2778 <xsd:element name="doNotSnapToGridInCell" type="CT\_OnOff" minOccurs="0"/>  
 2779 <xsd:element name="selectFldWithFirstOrLastChar" type="CT\_OnOff" minOccurs="0"/>  
 2780 <xsd:element name="applyBreakingRules" type="CT\_OnOff" minOccurs="0"/>  
 2781 <xsd:element name="doNotWrapTextWithPunct" type="CT\_OnOff" minOccurs="0"/>  
 2782 <xsd:element name="doNotUseEastAsianBreakRules" type="CT\_OnOff" minOccurs="0"/>  
 2783 <xsd:element name="useWord2002TableStyleRules" type="CT\_OnOff" minOccurs="0"/>  
 2784 <xsd:element name="growAutofit" type="CT\_OnOff" minOccurs="0"/>  
 2785 <xsd:element name="useFELayout" type="CT\_OnOff" minOccurs="0"/>  
 2786 <xsd:element name="useNormalStyleForList" type="CT\_OnOff" minOccurs="0"/>  
 2787 <xsd:element name="doNotUseIndentAsNumberingTabStop" type="CT\_OnOff" minOccurs="0"/>  
 2788 <xsd:element name="useAltKinsokuLineBreakRules" type="CT\_OnOff" minOccurs="0"/>  
 2789 <xsd:element name="allowSpaceOfSameStyleInTable" type="CT\_OnOff" minOccurs="0"/>

```

2790     <xsd:element name="doNotSuppressIndentation" type="CT_OnOff" minOccurs="0"/>
2791     <xsd:element name="doNotAutofitConstrainedTables" type="CT_OnOff" minOccurs="0"/>
2792     <xsd:element name="autofitToFirstFixedWidthCell" type="CT_OnOff" minOccurs="0"/>
2793     <xsd:element name="underlineTabInNumList" type="CT_OnOff" minOccurs="0"/>
2794     <xsd:element name="displayHangulFixedWidth" type="CT_OnOff" minOccurs="0"/>
2795     <xsd:element name="splitPgBreakAndParaMark" type="CT_OnOff" minOccurs="0"/>
2796     <xsd:element name="doNotVertAlignCellWithSp" type="CT_OnOff" minOccurs="0"/>
2797     <xsd:element name="doNotBreakConstrainedForcedTable" type="CT_OnOff" minOccurs="0"/>
2798     <xsd:element name="doNotVertAlignInTxbx" type="CT_OnOff" minOccurs="0"/>
2799     <xsd:element name="useAnsiKerningPairs" type="CT_OnOff" minOccurs="0"/>
2800     <xsd:element name="cachedColBalance" type="CT_OnOff" minOccurs="0"/>
2801     <xsd:element name="compatSetting" type="CT_CompatSetting" minOccurs="0"
2802       maxOccurs="unbounded"/>
2803   </xsd:sequence>
2804 </xsd:complexType>
2805 <xsd:complexType name="CT_CompatSetting">
2806   <xsd:attribute name="name" type="s:ST_String"/>
2807   <xsd:attribute name="uri" type="s:ST_String"/>
2808   <xsd:attribute name="val" type="s:ST_String"/>
2809 </xsd:complexType>
2810 <xsd:complexType name="CT_DocVar">
2811   <xsd:attribute name="name" type="s:ST_String" use="required"/>
2812   <xsd:attribute name="val" type="s:ST_String" use="required"/>
2813 </xsd:complexType>
2814 <xsd:complexType name="CT_DocVars">
2815   <xsd:sequence>
2816     <xsd:element name="docVar" type="CT_DocVar" minOccurs="0" maxOccurs="unbounded"/>
2817   </xsd:sequence>
2818 </xsd:complexType>
2819 <xsd:complexType name="CT_DocRsids">
2820   <xsd:sequence>
2821     <xsd:element name="rsidRoot" type="CT_LongHexNumber" minOccurs="0" maxOccurs="1"/>
2822     <xsd:element name="rsid" type="CT_LongHexNumber" minOccurs="0" maxOccurs="unbounded"/>
2823   </xsd:sequence>
2824 </xsd:complexType>
2825 <xsd:simpleType name="ST_CharacterSpacing">
2826   <xsd:restriction base="xsd:string">
2827     <xsd:enumeration value="doNotCompress"/>
2828     <xsd:enumeration value="compressPunctuation"/>
2829     <xsd:enumeration value="compressPunctuationAndJapaneseKana"/>
2830   </xsd:restriction>
2831 </xsd:simpleType>
2832 <xsd:complexType name="CT_CharacterSpacing">
2833   <xsd:attribute name="val" type="ST_CharacterSpacing" use="required"/>
2834 </xsd:complexType>
2835 <xsd:complexType name="CT_SaveThroughXslt">
2836   <xsd:attribute ref="r:id" use="optional"/>
2837   <xsd:attribute name="solutionID" type="s:ST_String" use="optional"/>
2838 </xsd:complexType>
2839 <xsd:complexType name="CT_RPrDefault">
2840   <xsd:sequence>
2841     <xsd:element name="rPr" type="CT_RPr" minOccurs="0"/>
2842   </xsd:sequence>

```



```

2843 </xsd:complexType>
2844 <xsd:complexType name="CT_PPrDefault">
2845   <xsd:sequence>
2846     <xsd:element name="pPr" type="CT_PPrGeneral" minOccurs="0"/>
2847   </xsd:sequence>
2848 </xsd:complexType>
2849 <xsd:complexType name="CT_DocDefaults">
2850   <xsd:sequence>
2851     <xsd:element name="rPrDefault" type="CT_RPrDefault" minOccurs="0"/>
2852     <xsd:element name="pPrDefault" type="CT_PPrDefault" minOccurs="0"/>
2853   </xsd:sequence>
2854 </xsd:complexType>
2855 <xsd:simpleType name="ST_WmlColorSchemeIndex">
2856   <xsd:restriction base="xsd:string">
2857     <xsd:enumeration value="dark1"/>
2858     <xsd:enumeration value="light1"/>
2859     <xsd:enumeration value="dark2"/>
2860     <xsd:enumeration value="light2"/>
2861     <xsd:enumeration value="accent1"/>
2862     <xsd:enumeration value="accent2"/>
2863     <xsd:enumeration value="accent3"/>
2864     <xsd:enumeration value="accent4"/>
2865     <xsd:enumeration value="accent5"/>
2866     <xsd:enumeration value="accent6"/>
2867     <xsd:enumeration value="hyperlink"/>
2868     <xsd:enumeration value="followedHyperlink"/>
2869   </xsd:restriction>
2870 </xsd:simpleType>
2871 <xsd:complexType name="CT_ColorSchemeMapping">
2872   <xsd:attribute name="bg1" type="ST_WmlColorSchemeIndex"/>
2873   <xsd:attribute name="t1" type="ST_WmlColorSchemeIndex"/>
2874   <xsd:attribute name="bg2" type="ST_WmlColorSchemeIndex"/>
2875   <xsd:attribute name="t2" type="ST_WmlColorSchemeIndex"/>
2876   <xsd:attribute name="accent1" type="ST_WmlColorSchemeIndex"/>
2877   <xsd:attribute name="accent2" type="ST_WmlColorSchemeIndex"/>
2878   <xsd:attribute name="accent3" type="ST_WmlColorSchemeIndex"/>
2879   <xsd:attribute name="accent4" type="ST_WmlColorSchemeIndex"/>
2880   <xsd:attribute name="accent5" type="ST_WmlColorSchemeIndex"/>
2881   <xsd:attribute name="accent6" type="ST_WmlColorSchemeIndex"/>
2882   <xsd:attribute name="hyperlink" type="ST_WmlColorSchemeIndex"/>
2883   <xsd:attribute name="followedHyperlink" type="ST_WmlColorSchemeIndex"/>
2884 </xsd:complexType>
2885 <xsd:complexType name="CT_ReadingModeInkLockDown">
2886   <xsd:attribute name="actualPg" type="s:ST_OnOff" use="required"/>
2887   <xsd:attribute name="w" type="ST_PixelsMeasure" use="required"/>
2888   <xsd:attribute name="h" type="ST_PixelsMeasure" use="required"/>
2889   <xsd:attribute name="fontSz" type="ST_DecimalNumberOrPercent" use="required"/>
2890 </xsd:complexType>
2891 <xsd:complexType name="CT_WriteProtection">
2892   <xsd:attribute name="recommended" type="s:ST_OnOff" use="optional"/>
2893   <xsd:attributeGroup ref="AG_Password"/>
2894   <xsd:attributeGroup ref="AG_TransitionalPassword"/>
2895 </xsd:complexType>

```

```

2896 <xsd:complexType name="CT_Settings">
2897   <xsd:sequence>
2898     <xsd:element name="writeProtection" type="CT_WriteProtection" minOccurs="0"/>
2899     <xsd:element name="view" type="CT_View" minOccurs="0"/>
2900     <xsd:element name="zoom" type="CT_Zoom" minOccurs="0"/>
2901     <xsd:element name="removePersonalInformation" type="CT_OnOff" minOccurs="0"/>
2902     <xsd:element name="removeDateAndTime" type="CT_OnOff" minOccurs="0"/>
2903     <xsd:element name="doNotDisplayPageBoundaries" type="CT_OnOff" minOccurs="0"/>
2904     <xsd:element name="displayBackgroundShape" type="CT_OnOff" minOccurs="0"/>
2905     <xsd:element name="printPostScriptOverText" type="CT_OnOff" minOccurs="0"/>
2906     <xsd:element name="printFractionalCharacterWidth" type="CT_OnOff" minOccurs="0"/>
2907     <xsd:element name="printFormsData" type="CT_OnOff" minOccurs="0"/>
2908     <xsd:element name="embedTrueTypeFonts" type="CT_OnOff" minOccurs="0"/>
2909     <xsd:element name="embedSystemFonts" type="CT_OnOff" minOccurs="0"/>
2910     <xsd:element name="saveSubsetFonts" type="CT_OnOff" minOccurs="0"/>
2911     <xsd:element name="saveFormsData" type="CT_OnOff" minOccurs="0"/>
2912     <xsd:element name="mirrorMargins" type="CT_OnOff" minOccurs="0"/>
2913     <xsd:element name="alignBordersAndEdges" type="CT_OnOff" minOccurs="0"/>
2914     <xsd:element name="bordersDoNotSurroundHeader" type="CT_OnOff" minOccurs="0"/>
2915     <xsd:element name="bordersDoNotSurroundFooter" type="CT_OnOff" minOccurs="0"/>
2916     <xsd:element name="gutterAtTop" type="CT_OnOff" minOccurs="0"/>
2917     <xsd:element name="hideSpellingErrors" type="CT_OnOff" minOccurs="0"/>
2918     <xsd:element name="hideGrammaticalErrors" type="CT_OnOff" minOccurs="0"/>
2919     <xsd:element name="activeWritingStyle" type="CT_WritingStyle" minOccurs="0"
2920       maxOccurs="unbounded"/>
2921     <xsd:element name="proofState" type="CT_Proof" minOccurs="0"/>
2922     <xsd:element name="formsDesign" type="CT_OnOff" minOccurs="0"/>
2923     <xsd:element name="attachedTemplate" type="CT_Rel" minOccurs="0"/>
2924     <xsd:element name="linkStyles" type="CT_OnOff" minOccurs="0"/>
2925     <xsd:element name="stylePaneFormatFilter" type="CT_StylePaneFilter" minOccurs="0"/>
2926     <xsd:element name="stylePaneSortMethod" type="CT_StyleSort" minOccurs="0"/>
2927     <xsd:element name="documentType" type="CT_DocType" minOccurs="0"/>
2928     <xsd:element name="mailMerge" type="CT_MailMerge" minOccurs="0"/>
2929     <xsd:element name="revisionView" type="CT_TrackChangesView" minOccurs="0"/>
2930     <xsd:element name="trackRevisions" type="CT_OnOff" minOccurs="0"/>
2931     <xsd:element name="doNotTrackMoves" type="CT_OnOff" minOccurs="0"/>
2932     <xsd:element name="doNotTrackFormatting" type="CT_OnOff" minOccurs="0"/>
2933     <xsd:element name="documentProtection" type="CT_DocProtect" minOccurs="0"/>
2934     <xsd:element name="autoFormatOverride" type="CT_OnOff" minOccurs="0"/>
2935     <xsd:element name="styleLockTheme" type="CT_OnOff" minOccurs="0"/>
2936     <xsd:element name="styleLockQFSet" type="CT_OnOff" minOccurs="0"/>
2937     <xsd:element name="defaultTabStop" type="CT_TwipsMeasure" minOccurs="0"/>
2938     <xsd:element name="autoHyphenation" type="CT_OnOff" minOccurs="0"/>
2939     <xsd:element name="consecutiveHyphenLimit" type="CT_DecimalNumber" minOccurs="0"/>
2940     <xsd:element name="hyphenationZone" type="CT_TwipsMeasure" minOccurs="0"/>
2941     <xsd:element name="doNotHyphenateCaps" type="CT_OnOff" minOccurs="0"/>
2942     <xsd:element name="showEnvelope" type="CT_OnOff" minOccurs="0"/>
2943     <xsd:element name="summaryLength" type="CT_DecimalNumberOrPrecent" minOccurs="0"/>
2944     <xsd:element name="clickAndTypeStyle" type="CT_String" minOccurs="0"/>
2945     <xsd:element name="defaultTableStyle" type="CT_String" minOccurs="0"/>
2946     <xsd:element name="evenAndOddHeaders" type="CT_OnOff" minOccurs="0"/>
2947     <xsd:element name="bookFoldRevPrinting" type="CT_OnOff" minOccurs="0"/>
2948     <xsd:element name="bookFoldPrinting" type="CT_OnOff" minOccurs="0"/>

```

```

2949 <xsd:element name="bookFoldPrintingSheets" type="CT DecimalNumber" minOccurs="0"/>
2950 <xsd:element name="drawingGridHorizontalSpacing" type="CT TwipsMeasure" minOccurs="0"/>
2951 <xsd:element name="drawingGridVerticalSpacing" type="CT TwipsMeasure" minOccurs="0"/>
2952 <xsd:element name="displayHorizontalDrawingGridEvery" type="CT DecimalNumber"
2953     minOccurs="0"/>
2954 <xsd:element name="displayVerticalDrawingGridEvery" type="CT DecimalNumber"
2955     minOccurs="0"/>
2956 <xsd:element name="doNotUseMarginsForDrawingGridOrigin" type="CT OnOff" minOccurs="0"/>
2957 <xsd:element name="drawingGridHorizontalOrigin" type="CT TwipsMeasure" minOccurs="0"/>
2958 <xsd:element name="drawingGridVerticalOrigin" type="CT TwipsMeasure" minOccurs="0"/>
2959 <xsd:element name="doNotShadeFormData" type="CT OnOff" minOccurs="0"/>
2960 <xsd:element name="noPunctuationKerning" type="CT OnOff" minOccurs="0"/>
2961 <xsd:element name="characterSpacingControl" type="CT CharacterSpacing" minOccurs="0"/>
2962 <xsd:element name="printTwoOnOne" type="CT OnOff" minOccurs="0"/>
2963 <xsd:element name="strictFirstAndLastChars" type="CT OnOff" minOccurs="0"/>
2964 <xsd:element name="noLineBreaksAfter" type="CT Kinsoku" minOccurs="0"/>
2965 <xsd:element name="noLineBreaksBefore" type="CT Kinsoku" minOccurs="0"/>
2966 <xsd:element name="savePreviewPicture" type="CT OnOff" minOccurs="0"/>
2967 <xsd:element name="doNotValidateAgainstSchema" type="CT OnOff" minOccurs="0"/>
2968 <xsd:element name="saveInvalidXml" type="CT OnOff" minOccurs="0"/>
2969 <xsd:element name="ignoreMixedContent" type="CT OnOff" minOccurs="0"/>
2970 <xsd:element name="alwaysShowPlaceholderText" type="CT OnOff" minOccurs="0"/>
2971 <xsd:element name="doNotDemarcateInvalidXml" type="CT OnOff" minOccurs="0"/>
2972 <xsd:element name="saveXmlDataOnly" type="CT OnOff" minOccurs="0"/>
2973 <xsd:element name="useXSLTWhenSaving" type="CT OnOff" minOccurs="0"/>
2974 <xsd:element name="saveThroughXslt" type="CT SaveThroughXslt" minOccurs="0"/>
2975 <xsd:element name="showXMLTags" type="CT OnOff" minOccurs="0"/>
2976 <xsd:element name="alwaysMergeEmptyNamespace" type="CT OnOff" minOccurs="0"/>
2977 <xsd:element name="updateFields" type="CT OnOff" minOccurs="0"/>
2978 <xsd:element name="hdrShapeDefaults" type="CT ShapeDefaults" minOccurs="0"/>
2979 <xsd:element name="footnotePr" type="CT FtnDocProps" minOccurs="0"/>
2980 <xsd:element name="endnotePr" type="CT EdnDocProps" minOccurs="0"/>
2981 <xsd:element name="compat" type="CT Compat" minOccurs="0"/>
2982 <xsd:element name="docVars" type="CT DocVars" minOccurs="0"/>
2983 <xsd:element name="rsids" type="CT DocRsids" minOccurs="0"/>
2984 <xsd:element ref="m:mathPr" minOccurs="0" maxOccurs="1"/>
2985 <xsd:element name="attachedSchema" type="CT String" minOccurs="0" maxOccurs="unbounded"/>
2986 <xsd:element name="themeFontLang" type="CT Language" minOccurs="0" maxOccurs="1"/>
2987 <xsd:element name="clrSchemeMapping" type="CT ColorSchemeMapping" minOccurs="0"/>
2988 <xsd:element name="doNotIncludeSubdocsInStats" type="CT OnOff" minOccurs="0"/>
2989 <xsd:element name="doNotAutoCompressPictures" type="CT OnOff" minOccurs="0"/>
2990 <xsd:element name="forceUpgrade" type="CT Empty" minOccurs="0" maxOccurs="1"/>
2991 <xsd:element name="captions" type="CT Captions" minOccurs="0" maxOccurs="1"/>
2992 <xsd:element name="readModeInkLockDown" type="CT ReadingModeInkLockDown" minOccurs="0"/>
2993 <xsd:element name="smartTagType" type="CT SmartTagType" minOccurs="0"
2994     maxOccurs="unbounded"/>
2995 <xsd:element ref="sl:schemaLibrary" minOccurs="0" maxOccurs="1"/>
2996 <xsd:element name="shapeDefaults" type="CT ShapeDefaults" minOccurs="0"/>
2997 <xsd:element name="doNotEmbedSmartTags" type="CT OnOff" minOccurs="0"/>
2998 <xsd:element name="decimalSymbol" type="CT String" minOccurs="0" maxOccurs="1"/>
2999 <xsd:element name="listSeparator" type="CT String" minOccurs="0" maxOccurs="1"/>
3000 </xsd:sequence>
3001 </xsd:complexType>

```

```

3002 <xsd:complexType name="CT_StyleSort">
3003   <xsd:attribute name="val" type="ST_StyleSort" use="required"/>
3004 </xsd:complexType>
3005 <xsd:complexType name="CT_StylePaneFilter">
3006   <xsd:attribute name="allStyles" type="s:ST_OnOff"/>
3007   <xsd:attribute name="customStyles" type="s:ST_OnOff"/>
3008   <xsd:attribute name="latentStyles" type="s:ST_OnOff"/>
3009   <xsd:attribute name="stylesInUse" type="s:ST_OnOff"/>
3010   <xsd:attribute name="headingStyles" type="s:ST_OnOff"/>
3011   <xsd:attribute name="numberingStyles" type="s:ST_OnOff"/>
3012   <xsd:attribute name="tableStyles" type="s:ST_OnOff"/>
3013   <xsd:attribute name="directFormattingOnRuns" type="s:ST_OnOff"/>
3014   <xsd:attribute name="directFormattingOnParagraphs" type="s:ST_OnOff"/>
3015   <xsd:attribute name="directFormattingOnNumbering" type="s:ST_OnOff"/>
3016   <xsd:attribute name="directFormattingOnTables" type="s:ST_OnOff"/>
3017   <xsd:attribute name="clearFormatting" type="s:ST_OnOff"/>
3018   <xsd:attribute name="top3HeadingStyles" type="s:ST_OnOff"/>
3019   <xsd:attribute name="visibleStyles" type="s:ST_OnOff"/>
3020   <xsd:attribute name="alternateStyleNames" type="s:ST_OnOff"/>
3021   <xsd:attribute name="val" type="ST_ShortHexNumber"/>
3022 </xsd:complexType>
3023 <xsd:simpleType name="ST_StyleSort">
3024   <xsd:restriction base="xsd:string">
3025     <xsd:enumeration value="name"/>
3026     <xsd:enumeration value="priority"/>
3027     <xsd:enumeration value="default"/>
3028     <xsd:enumeration value="font"/>
3029     <xsd:enumeration value="basedOn"/>
3030     <xsd:enumeration value="type"/>
3031     <xsd:enumeration value="0000"/>
3032     <xsd:enumeration value="0001"/>
3033     <xsd:enumeration value="0002"/>
3034     <xsd:enumeration value="0003"/>
3035     <xsd:enumeration value="0004"/>
3036     <xsd:enumeration value="0005"/>
3037   </xsd:restriction>
3038 </xsd:simpleType>
3039 <xsd:complexType name="CT_WebSettings">
3040   <xsd:sequence>
3041     <xsd:element name="frameset" type="CT_Frameset" minOccurs="0"/>
3042     <xsd:element name="divs" type="CT_Divs" minOccurs="0"/>
3043     <xsd:element name="encoding" type="CT_String" minOccurs="0"/>
3044     <xsd:element name="optimizeForBrowser" type="CT_OptimizeForBrowser" minOccurs="0"/>
3045     <xsd:element name="relyOnVML" type="CT_OnOff" minOccurs="0"/>
3046     <xsd:element name="allowPNG" type="CT_OnOff" minOccurs="0"/>
3047     <xsd:element name="doNotRelyOnCSS" type="CT_OnOff" minOccurs="0"/>
3048     <xsd:element name="doNotSaveAsSingleFile" type="CT_OnOff" minOccurs="0"/>
3049     <xsd:element name="doNotOrganizeInFolder" type="CT_OnOff" minOccurs="0"/>
3050     <xsd:element name="doNotUseLongFileNames" type="CT_OnOff" minOccurs="0"/>
3051     <xsd:element name="pixelsPerInch" type="CT_DecimalNumber" minOccurs="0"/>
3052     <xsd:element name="targetScreenSz" type="CT_TargetScreenSz" minOccurs="0"/>
3053     <xsd:element name="saveSmartTagsAsXml" type="CT_OnOff" minOccurs="0"/>
3054   </xsd:sequence>

```

```

3055 </xsd:complexType>
3056 <xsd:simpleType name="ST_FrameScrollbar">
3057   <xsd:restriction base="xsd:string">
3058     <xsd:enumeration value="on"/>
3059     <xsd:enumeration value="off"/>
3060     <xsd:enumeration value="auto"/>
3061   </xsd:restriction>
3062 </xsd:simpleType>
3063 <xsd:complexType name="CT_FrameScrollbar">
3064   <xsd:attribute name="val" type="ST_FrameScrollbar" use="required"/>
3065 </xsd:complexType>
3066 <xsd:complexType name="CT_OptimizeForBrowser">
3067   <xsd:complexContent>
3068     <xsd:extension base="CT_OnOff">
3069       <xsd:attribute name="target" type="s:ST_String" use="optional"/>
3070     </xsd:extension>
3071   </xsd:complexContent>
3072 </xsd:complexType>
3073 <xsd:complexType name="CT_Frame">
3074   <xsd:sequence>
3075     <xsd:element name="sz" type="CT_String" minOccurs="0"/>
3076     <xsd:element name="name" type="CT_String" minOccurs="0"/>
3077     <xsd:element name="title" type="CT_String" minOccurs="0"/>
3078     <xsd:element name="longDesc" type="CT_Rel" minOccurs="0"/>
3079     <xsd:element name="sourceFileName" type="CT_Rel" minOccurs="0"/>
3080     <xsd:element name="marW" type="CT_PixelsMeasure" minOccurs="0"/>
3081     <xsd:element name="marH" type="CT_PixelsMeasure" minOccurs="0"/>
3082     <xsd:element name="scrollbar" type="CT_FrameScrollbar" minOccurs="0"/>
3083     <xsd:element name="noResizeAllowed" type="CT_OnOff" minOccurs="0"/>
3084     <xsd:element name="linkedToFile" type="CT_OnOff" minOccurs="0"/>
3085   </xsd:sequence>
3086 </xsd:complexType>
3087 <xsd:simpleType name="ST_FrameLayout">
3088   <xsd:restriction base="xsd:string">
3089     <xsd:enumeration value="rows"/>
3090     <xsd:enumeration value="cols"/>
3091     <xsd:enumeration value="none"/>
3092   </xsd:restriction>
3093 </xsd:simpleType>
3094 <xsd:complexType name="CT_FrameLayout">
3095   <xsd:attribute name="val" type="ST_FrameLayout" use="required"/>
3096 </xsd:complexType>
3097 <xsd:complexType name="CT_FramesetSplitbar">
3098   <xsd:sequence>
3099     <xsd:element name="w" type="CT_TwipsMeasure" minOccurs="0"/>
3100     <xsd:element name="color" type="CT_Color" minOccurs="0"/>
3101     <xsd:element name="noBorder" type="CT_OnOff" minOccurs="0"/>
3102     <xsd:element name="flatBorders" type="CT_OnOff" minOccurs="0"/>
3103   </xsd:sequence>
3104 </xsd:complexType>
3105 <xsd:complexType name="CT_Frameset">
3106   <xsd:sequence>
3107     <xsd:element name="sz" type="CT_String" minOccurs="0"/>

```



```

3108     <xsd:element name="framesetSplitbar" type="CT FramesetSplitbar" minOccurs="0"/>
3109     <xsd:element name="frameLayout" type="CT FrameLayout" minOccurs="0"/>
3110     <xsd:element name="title" type="CT String" minOccurs="0"/>
3111     <xsd:choice minOccurs="0" maxOccurs="unbounded">
3112         <xsd:element name="frameset" type="CT Frameset" minOccurs="0" maxOccurs="unbounded"/>
3113         <xsd:element name="frame" type="CT Frame" minOccurs="0" maxOccurs="unbounded"/>
3114     </xsd:choice>
3115 </xsd:sequence>
3116 </xsd:complexType>
3117 <xsd:complexType name="CT_NumPicBullet">
3118     <xsd:choice>
3119         <xsd:element name="pict" type="CT Picture"/>
3120         <xsd:element name="drawing" type="CT Drawing"/>
3121     </xsd:choice>
3122     <xsd:attribute name="numPicBulletId" type="ST DecimalNumber" use="required"/>
3123 </xsd:complexType>
3124 <xsd:simpleType name="ST_LevelSuffix">
3125     <xsd:restriction base="xsd:string">
3126         <xsd:enumeration value="tab"/>
3127         <xsd:enumeration value="space"/>
3128         <xsd:enumeration value="nothing"/>
3129     </xsd:restriction>
3130 </xsd:simpleType>
3131 <xsd:complexType name="CT_LevelSuffix">
3132     <xsd:attribute name="val" type="ST LevelSuffix" use="required"/>
3133 </xsd:complexType>
3134 <xsd:complexType name="CT_LevelText">
3135     <xsd:attribute name="val" type="s:ST String" use="optional"/>
3136     <xsd:attribute name="null" type="s:ST OnOff" use="optional"/>
3137 </xsd:complexType>
3138 <xsd:complexType name="CT_LvlLegacy">
3139     <xsd:attribute name="legacy" type="s:ST OnOff" use="optional"/>
3140     <xsd:attribute name="legacySpace" type="s:ST TwipsMeasure" use="optional"/>
3141     <xsd:attribute name="legacyIndent" type="ST SignedTwipsMeasure" use="optional"/>
3142 </xsd:complexType>
3143 <xsd:complexType name="CT_Lvl">
3144     <xsd:sequence>
3145         <xsd:element name="start" type="CT DecimalNumber" minOccurs="0"/>
3146         <xsd:element name="numFmt" type="CT NumFmt" minOccurs="0"/>
3147         <xsd:element name="lvlRestart" type="CT DecimalNumber" minOccurs="0"/>
3148         <xsd:element name="pStyle" type="CT String" minOccurs="0"/>
3149         <xsd:element name="isLgl" type="CT OnOff" minOccurs="0"/>
3150         <xsd:element name="suff" type="CT LevelSuffix" minOccurs="0"/>
3151         <xsd:element name="lvlText" type="CT LevelText" minOccurs="0"/>
3152         <xsd:element name="lvlPicBulletId" type="CT DecimalNumber" minOccurs="0"/>
3153         <xsd:element name="legacy" type="CT LvlLegacy" minOccurs="0"/>
3154         <xsd:element name="lvlJc" type="CT Jc" minOccurs="0"/>
3155         <xsd:element name="pPr" type="CT PPrGeneral" minOccurs="0"/>
3156         <xsd:element name="rPr" type="CT RPr" minOccurs="0"/>
3157     </xsd:sequence>
3158     <xsd:attribute name="ilvl" type="ST DecimalNumber" use="required"/>
3159     <xsd:attribute name="tplc" type="ST LongHexNumber" use="optional"/>
3160     <xsd:attribute name="tentative" type="s:ST OnOff" use="optional"/>

```

```

3161 </xsd:complexType>
3162 <xsd:simpleType name="ST_MultiLevelType">
3163   <xsd:restriction base="xsd:string">
3164     <xsd:enumeration value="singleLevel"/>
3165     <xsd:enumeration value="multilevel"/>
3166     <xsd:enumeration value="hybridMultilevel"/>
3167   </xsd:restriction>
3168 </xsd:simpleType>
3169 <xsd:complexType name="CT_MultiLevelType">
3170   <xsd:attribute name="val" type="ST_MultiLevelType" use="required"/>
3171 </xsd:complexType>
3172 <xsd:complexType name="CT_AbstractNum">
3173   <xsd:sequence>
3174     <xsd:element name="nsid" type="CT_LongHexNumber" minOccurs="0"/>
3175     <xsd:element name="multiLevelType" type="CT_MultiLevelType" minOccurs="0"/>
3176     <xsd:element name="tmpl" type="CT_LongHexNumber" minOccurs="0"/>
3177     <xsd:element name="name" type="CT_String" minOccurs="0"/>
3178     <xsd:element name="styleLink" type="CT_String" minOccurs="0"/>
3179     <xsd:element name="numStyleLink" type="CT_String" minOccurs="0"/>
3180     <xsd:element name="lvl" type="CT_Lvl" minOccurs="0" maxOccurs="9"/>
3181   </xsd:sequence>
3182   <xsd:attribute name="abstractNumId" type="ST_DecimalNumber" use="required"/>
3183 </xsd:complexType>
3184 <xsd:complexType name="CT_NumLvl">
3185   <xsd:sequence>
3186     <xsd:element name="startOverride" type="CT_DecimalNumber" minOccurs="0"/>
3187     <xsd:element name="lvl" type="CT_Lvl" minOccurs="0" maxOccurs="1"/>
3188   </xsd:sequence>
3189   <xsd:attribute name="ilvl" type="ST_DecimalNumber" use="required"/>
3190 </xsd:complexType>
3191 <xsd:complexType name="CT_Num">
3192   <xsd:sequence>
3193     <xsd:element name="abstractNumId" type="CT_DecimalNumber" minOccurs="1"/>
3194     <xsd:element name="lvlOverride" type="CT_NumLvl" minOccurs="0" maxOccurs="9"/>
3195   </xsd:sequence>
3196   <xsd:attribute name="numId" type="ST_DecimalNumber" use="required"/>
3197 </xsd:complexType>
3198 <xsd:complexType name="CT_Numbering">
3199   <xsd:sequence>
3200     <xsd:element name="numPicBullet" type="CT_NumPicBullet" minOccurs="0"
3201       maxOccurs="unbounded"/>
3202     <xsd:element name="abstractNum" type="CT_AbstractNum" minOccurs="0"
3203       maxOccurs="unbounded"/>
3204     <xsd:element name="num" type="CT_Num" minOccurs="0" maxOccurs="unbounded"/>
3205     <xsd:element name="numIdMacAtCleanup" type="CT_DecimalNumber" minOccurs="0"/>
3206   </xsd:sequence>
3207 </xsd:complexType>
3208 <xsd:simpleType name="ST_TblStyleOverrideType">
3209   <xsd:restriction base="xsd:string">
3210     <xsd:enumeration value="wholeTable"/>
3211     <xsd:enumeration value="firstRow"/>
3212     <xsd:enumeration value="lastRow"/>
3213     <xsd:enumeration value="firstCol"/>

```

```

3214     <xsd:enumeration value="lastCol"/>
3215     <xsd:enumeration value="band1Vert"/>
3216     <xsd:enumeration value="band2Vert"/>
3217     <xsd:enumeration value="band1Horz"/>
3218     <xsd:enumeration value="band2Horz"/>
3219     <xsd:enumeration value="neCell"/>
3220     <xsd:enumeration value="nwCell"/>
3221     <xsd:enumeration value="seCell"/>
3222     <xsd:enumeration value="swCell"/>
3223   </xsd:restriction>
3224 </xsd:simpleType>
3225 <xsd:complexType name="CT_TblStylePr">
3226   <xsd:sequence>
3227     <xsd:element name="pPr" type="CT_PPrGeneral" minOccurs="0"/>
3228     <xsd:element name="rPr" type="CT_RPr" minOccurs="0"/>
3229     <xsd:element name="tblPr" type="CT_TblPrBase" minOccurs="0"/>
3230     <xsd:element name="trPr" type="CT_TrPr" minOccurs="0" maxOccurs="1"/>
3231     <xsd:element name="tcPr" type="CT_TcPr" minOccurs="0" maxOccurs="1"/>
3232   </xsd:sequence>
3233   <xsd:attribute name="type" type="ST_TblStyleOverrideType" use="required"/>
3234 </xsd:complexType>
3235 <xsd:simpleType name="ST_StyleType">
3236   <xsd:restriction base="xsd:string">
3237     <xsd:enumeration value="paragraph"/>
3238     <xsd:enumeration value="character"/>
3239     <xsd:enumeration value="table"/>
3240     <xsd:enumeration value="numbering"/>
3241   </xsd:restriction>
3242 </xsd:simpleType>
3243 <xsd:complexType name="CT_Style">
3244   <xsd:sequence>
3245     <xsd:element name="name" type="CT_String" minOccurs="0" maxOccurs="1"/>
3246     <xsd:element name="aliases" type="CT_String" minOccurs="0"/>
3247     <xsd:element name="basedOn" type="CT_String" minOccurs="0"/>
3248     <xsd:element name="next" type="CT_String" minOccurs="0"/>
3249     <xsd:element name="link" type="CT_String" minOccurs="0"/>
3250     <xsd:element name="autoRedefine" type="CT_OnOff" minOccurs="0"/>
3251     <xsd:element name="hidden" type="CT_OnOff" minOccurs="0"/>
3252     <xsd:element name="uiPriority" type="CT_DecimalNumber" minOccurs="0"/>
3253     <xsd:element name="semiHidden" type="CT_OnOff" minOccurs="0"/>
3254     <xsd:element name="unhideWhenUsed" type="CT_OnOff" minOccurs="0"/>
3255     <xsd:element name="qFormat" type="CT_OnOff" minOccurs="0"/>
3256     <xsd:element name="locked" type="CT_OnOff" minOccurs="0"/>
3257     <xsd:element name="personal" type="CT_OnOff" minOccurs="0"/>
3258     <xsd:element name="personalCompose" type="CT_OnOff" minOccurs="0"/>
3259     <xsd:element name="personalReply" type="CT_OnOff" minOccurs="0"/>
3260     <xsd:element name="rsid" type="CT_LongHexNumber" minOccurs="0"/>
3261     <xsd:element name="pPr" type="CT_PPrGeneral" minOccurs="0" maxOccurs="1"/>
3262     <xsd:element name="rPr" type="CT_RPr" minOccurs="0" maxOccurs="1"/>
3263     <xsd:element name="tblPr" type="CT_TblPrBase" minOccurs="0" maxOccurs="1"/>
3264     <xsd:element name="trPr" type="CT_TrPr" minOccurs="0" maxOccurs="1"/>
3265     <xsd:element name="tcPr" type="CT_TcPr" minOccurs="0" maxOccurs="1"/>
3266     <xsd:element name="tblStylePr" type="CT_TblStylePr" minOccurs="0" maxOccurs="unbounded"/>

```



```

3267     </xsd:sequence>
3268     <xsd:attribute name="type" type="ST_StyleType" use="optional"/>
3269     <xsd:attribute name="styleId" type="s:ST_String" use="optional"/>
3270     <xsd:attribute name="default" type="s:ST_OnOff" use="optional"/>
3271     <xsd:attribute name="customStyle" type="s:ST_OnOff" use="optional"/>
3272 </xsd:complexType>
3273 <xsd:complexType name="CT_LsdException">
3274     <xsd:attribute name="name" type="s:ST_String" use="required"/>
3275     <xsd:attribute name="locked" type="s:ST_OnOff"/>
3276     <xsd:attribute name="uiPriority" type="ST_DecimalNumber"/>
3277     <xsd:attribute name="semiHidden" type="s:ST_OnOff"/>
3278     <xsd:attribute name="unhideWhenUsed" type="s:ST_OnOff"/>
3279     <xsd:attribute name="qFormat" type="s:ST_OnOff"/>
3280 </xsd:complexType>
3281 <xsd:complexType name="CT_LatentStyles">
3282     <xsd:sequence>
3283         <xsd:element name="lsdException" type="CT_LsdException" minOccurs="0"
3284             maxOccurs="unbounded"/>
3285     </xsd:sequence>
3286     <xsd:attribute name="defLockedState" type="s:ST_OnOff"/>
3287     <xsd:attribute name="defUIPriority" type="ST_DecimalNumber"/>
3288     <xsd:attribute name="defSemiHidden" type="s:ST_OnOff"/>
3289     <xsd:attribute name="defUnhideWhenUsed" type="s:ST_OnOff"/>
3290     <xsd:attribute name="defQFormat" type="s:ST_OnOff"/>
3291     <xsd:attribute name="count" type="ST_DecimalNumber"/>
3292 </xsd:complexType>
3293 <xsd:complexType name="CT_Styles">
3294     <xsd:sequence>
3295         <xsd:element name="docDefaults" type="CT_DocDefaults" minOccurs="0"/>
3296         <xsd:element name="latentStyles" type="CT_LatentStyles" minOccurs="0" maxOccurs="1"/>
3297         <xsd:element name="style" type="CT_Style" minOccurs="0" maxOccurs="unbounded"/>
3298     </xsd:sequence>
3299 </xsd:complexType>
3300 <xsd:complexType name="CT_Panose">
3301     <xsd:attribute name="val" type="s:ST_Panose" use="required"/>
3302 </xsd:complexType>
3303 <xsd:simpleType name="ST_FontFamily">
3304     <xsd:restriction base="xsd:string">
3305         <xsd:enumeration value="decorative"/>
3306         <xsd:enumeration value="modern"/>
3307         <xsd:enumeration value="roman"/>
3308         <xsd:enumeration value="script"/>
3309         <xsd:enumeration value="swiss"/>
3310         <xsd:enumeration value="auto"/>
3311     </xsd:restriction>
3312 </xsd:simpleType>
3313 <xsd:complexType name="CT_FontFamily">
3314     <xsd:attribute name="val" type="ST_FontFamily" use="required"/>
3315 </xsd:complexType>
3316 <xsd:simpleType name="ST_Pitch">
3317     <xsd:restriction base="xsd:string">
3318         <xsd:enumeration value="fixed"/>
3319         <xsd:enumeration value="variable"/>

```

```

3320     <xsd:enumeration value="default"/>
3321   </xsd:restriction>
3322 </xsd:simpleType>
3323 <xsd:complexType name="CT_Pitch">
3324   <xsd:attribute name="val" type="ST_Pitch" use="required"/>
3325 </xsd:complexType>
3326 <xsd:complexType name="CT_FontSig">
3327   <xsd:attribute name="usb0" use="required" type="ST_LongHexNumber"/>
3328   <xsd:attribute name="usb1" use="required" type="ST_LongHexNumber"/>
3329   <xsd:attribute name="usb2" use="required" type="ST_LongHexNumber"/>
3330   <xsd:attribute name="usb3" use="required" type="ST_LongHexNumber"/>
3331   <xsd:attribute name="csb0" use="required" type="ST_LongHexNumber"/>
3332   <xsd:attribute name="csb1" use="required" type="ST_LongHexNumber"/>
3333 </xsd:complexType>
3334 <xsd:complexType name="CT_FontRel">
3335   <xsd:complexContent>
3336     <xsd:extension base="CT_Rel">
3337       <xsd:attribute name="fontKey" type="s:ST_Guid"/>
3338       <xsd:attribute name="subsetting" type="s:ST_OnOff"/>
3339     </xsd:extension>
3340   </xsd:complexContent>
3341 </xsd:complexType>
3342 <xsd:complexType name="CT_Font">
3343   <xsd:sequence>
3344     <xsd:element name="altName" type="CT_String" minOccurs="0" maxOccurs="1"/>
3345     <xsd:element name="panose1" type="CT_Panose" minOccurs="0" maxOccurs="1"/>
3346     <xsd:element name="charset" type="CT_Charset" minOccurs="0" maxOccurs="1"/>
3347     <xsd:element name="family" type="CT_FontFamily" minOccurs="0" maxOccurs="1"/>
3348     <xsd:element name="notTrueType" type="CT_OnOff" minOccurs="0" maxOccurs="1"/>
3349     <xsd:element name="pitch" type="CT_Pitch" minOccurs="0" maxOccurs="1"/>
3350     <xsd:element name="sig" type="CT_FontSig" minOccurs="0" maxOccurs="1"/>
3351     <xsd:element name="embedRegular" type="CT_FontRel" minOccurs="0" maxOccurs="1"/>
3352     <xsd:element name="embedBold" type="CT_FontRel" minOccurs="0" maxOccurs="1"/>
3353     <xsd:element name="embedItalic" type="CT_FontRel" minOccurs="0" maxOccurs="1"/>
3354     <xsd:element name="embedBoldItalic" type="CT_FontRel" minOccurs="0" maxOccurs="1"/>
3355   </xsd:sequence>
3356   <xsd:attribute name="name" type="s:ST_String" use="required"/>
3357 </xsd:complexType>
3358 <xsd:complexType name="CT_FontsList">
3359   <xsd:sequence>
3360     <xsd:element name="font" type="CT_Font" minOccurs="0" maxOccurs="unbounded"/>
3361   </xsd:sequence>
3362 </xsd:complexType>
3363 <xsd:complexType name="CT_DivBdr">
3364   <xsd:sequence>
3365     <xsd:element name="top" type="CT_Border" minOccurs="0"/>
3366     <xsd:element name="left" type="CT_Border" minOccurs="0"/>
3367     <xsd:element name="bottom" type="CT_Border" minOccurs="0"/>
3368     <xsd:element name="right" type="CT_Border" minOccurs="0"/>
3369   </xsd:sequence>
3370 </xsd:complexType>
3371 <xsd:complexType name="CT_Div">
3372   <xsd:sequence>

```

```

3373     <xsd:element name="blockQuote" type="CT_OnOff" minOccurs="0"/>
3374     <xsd:element name="bodyDiv" type="CT_OnOff" minOccurs="0"/>
3375     <xsd:element name="marLeft" type="CT_SignedTwipsMeasure"/>
3376     <xsd:element name="marRight" type="CT_SignedTwipsMeasure"/>
3377     <xsd:element name="marTop" type="CT_SignedTwipsMeasure"/>
3378     <xsd:element name="marBottom" type="CT_SignedTwipsMeasure"/>
3379     <xsd:element name="divBdr" type="CT_DivBdr" minOccurs="0"/>
3380     <xsd:element name="divsChild" type="CT_Divs" minOccurs="0" maxOccurs="unbounded"/>
3381   </xsd:sequence>
3382   <xsd:attribute name="id" type="ST_DecimalNumber" use="required"/>
3383 </xsd:complexType>
3384 <xsd:complexType name="CT_Divs">
3385   <xsd:sequence minOccurs="1" maxOccurs="unbounded">
3386     <xsd:element name="div" type="CT_Div"/>
3387   </xsd:sequence>
3388 </xsd:complexType>
3389 <xsd:complexType name="CT_TxbxContent">
3390   <xsd:group ref="EG_BlockLevelElts" minOccurs="1" maxOccurs="unbounded"/>
3391 </xsd:complexType>
3392 <xsd:element name="txbxContent" type="CT_TxbxContent"/>
3393 <xsd:group name="EG_MathContent">
3394   <xsd:choice>
3395     <xsd:element ref="m:oMathPara"/>
3396     <xsd:element ref="m:oMath"/>
3397   </xsd:choice>
3398 </xsd:group>
3399 <xsd:group name="EG_BlockLevelChunkElts">
3400   <xsd:choice>
3401     <xsd:group ref="EG_ContentBlockContent" minOccurs="0" maxOccurs="unbounded"/>
3402   </xsd:choice>
3403 </xsd:group>
3404 <xsd:group name="EG_BlockLevelElts">
3405   <xsd:choice>
3406     <xsd:group ref="EG_BlockLevelChunkElts" minOccurs="0" maxOccurs="unbounded"/>
3407     <xsd:element name="altChunk" type="CT_AltChunk" minOccurs="0" maxOccurs="unbounded"/>
3408   </xsd:choice>
3409 </xsd:group>
3410 <xsd:group name="EG_RunLevelElts">
3411   <xsd:choice>
3412     <xsd:element name="proofErr" minOccurs="0" type="CT_ProofErr"/>
3413     <xsd:element name="permStart" minOccurs="0" type="CT_PermStart"/>
3414     <xsd:element name="permEnd" minOccurs="0" type="CT_Perm"/>
3415     <xsd:group ref="EG_RangeMarkupElements" minOccurs="0" maxOccurs="unbounded"/>
3416     <xsd:element name="ins" type="CT_RunTrackChange" minOccurs="0"/>
3417     <xsd:element name="del" type="CT_RunTrackChange" minOccurs="0"/>
3418     <xsd:element name="moveFrom" type="CT_RunTrackChange"/>
3419     <xsd:element name="moveTo" type="CT_RunTrackChange"/>
3420     <xsd:group ref="EG_MathContent" minOccurs="0" maxOccurs="unbounded"/>
3421   </xsd:choice>
3422 </xsd:group>
3423 <xsd:complexType name="CT_Body">
3424   <xsd:sequence>
3425     <xsd:group ref="EG_BlockLevelElts" minOccurs="0" maxOccurs="unbounded"/>

```

```

3426     <xsd:element name="sectPr" minOccurs="0" maxOccurs="1" type="CT_SectPr"/>
3427   </xsd:sequence>
3428 </xsd:complexType>
3429 <xsd:complexType name="CT_ShapeDefaults">
3430   <xsd:choice maxOccurs="unbounded">
3431     <xsd:any processContents="lax" namespace="urn:schemas-microsoft-com:office:office"
3432       minOccurs="0" maxOccurs="unbounded"/>
3433   </xsd:choice>
3434 </xsd:complexType>
3435 <xsd:complexType name="CT_Comments">
3436   <xsd:sequence>
3437     <xsd:element name="comment" type="CT_Comment" minOccurs="0" maxOccurs="unbounded"/>
3438   </xsd:sequence>
3439 </xsd:complexType>
3440 <xsd:element name="comments" type="CT_Comments"/>
3441 <xsd:complexType name="CT_Footnotes">
3442   <xsd:sequence maxOccurs="unbounded">
3443     <xsd:element name="footnote" type="CT_FtnEdn" minOccurs="0"/>
3444   </xsd:sequence>
3445 </xsd:complexType>
3446 <xsd:element name="footnotes" type="CT_Footnotes"/>
3447 <xsd:complexType name="CT_Endnotes">
3448   <xsd:sequence maxOccurs="unbounded">
3449     <xsd:element name="endnote" type="CT_FtnEdn" minOccurs="0"/>
3450   </xsd:sequence>
3451 </xsd:complexType>
3452 <xsd:element name="endnotes" type="CT_Endnotes"/>
3453 <xsd:element name="hdr" type="CT_HdrFtr"/>
3454 <xsd:element name="ftr" type="CT_HdrFtr"/>
3455 <xsd:complexType name="CT_SmartTagType">
3456   <xsd:attribute name="namespaceuri" type="s:ST_String"/>
3457   <xsd:attribute name="name" type="s:ST_String"/>
3458   <xsd:attribute name="url" type="s:ST_String"/>
3459 </xsd:complexType>
3460 <xsd:simpleType name="ST_ThemeColor">
3461   <xsd:restriction base="xsd:string">
3462     <xsd:enumeration value="dark1"/>
3463     <xsd:enumeration value="light1"/>
3464     <xsd:enumeration value="dark2"/>
3465     <xsd:enumeration value="light2"/>
3466     <xsd:enumeration value="accent1"/>
3467     <xsd:enumeration value="accent2"/>
3468     <xsd:enumeration value="accent3"/>
3469     <xsd:enumeration value="accent4"/>
3470     <xsd:enumeration value="accent5"/>
3471     <xsd:enumeration value="accent6"/>
3472     <xsd:enumeration value="hyperlink"/>
3473     <xsd:enumeration value="followedHyperlink"/>
3474     <xsd:enumeration value="none"/>
3475     <xsd:enumeration value="background1"/>
3476     <xsd:enumeration value="text1"/>
3477     <xsd:enumeration value="background2"/>
3478     <xsd:enumeration value="text2"/>

```

```

3479     </xsd:restriction>
3480 </xsd:simpleType>
3481 <xsd:simpleType name="ST_DocPartBehavior">
3482     <xsd:restriction base="xsd:string">
3483         <xsd:enumeration value="content"/>
3484         <xsd:enumeration value="p"/>
3485         <xsd:enumeration value="pg"/>
3486     </xsd:restriction>
3487 </xsd:simpleType>
3488 <xsd:complexType name="CT_DocPartBehavior">
3489     <xsd:attribute name="val" use="required" type="ST_DocPartBehavior"/>
3490 </xsd:complexType>
3491 <xsd:complexType name="CT_DocPartBehaviors">
3492     <xsd:choice>
3493         <xsd:element name="behavior" type="CT_DocPartBehavior" maxOccurs="unbounded"/>
3494     </xsd:choice>
3495 </xsd:complexType>
3496 <xsd:simpleType name="ST_DocPartType">
3497     <xsd:restriction base="xsd:string">
3498         <xsd:enumeration value="none"/>
3499         <xsd:enumeration value="normal"/>
3500         <xsd:enumeration value="autoExp"/>
3501         <xsd:enumeration value="toolbar"/>
3502         <xsd:enumeration value="speller"/>
3503         <xsd:enumeration value="formFld"/>
3504         <xsd:enumeration value="bbPlcHdr"/>
3505     </xsd:restriction>
3506 </xsd:simpleType>
3507 <xsd:complexType name="CT_DocPartType">
3508     <xsd:attribute name="val" use="required" type="ST_DocPartType"/>
3509 </xsd:complexType>
3510 <xsd:complexType name="CT_DocPartTypes">
3511     <xsd:choice>
3512         <xsd:element name="type" type="CT_DocPartType" maxOccurs="unbounded"/>
3513     </xsd:choice>
3514     <xsd:attribute name="all" type="s:ST_OnOff" use="optional"/>
3515 </xsd:complexType>
3516 <xsd:simpleType name="ST_DocPartGallery">
3517     <xsd:restriction base="xsd:string">
3518         <xsd:enumeration value="placeholder"/>
3519         <xsd:enumeration value="any"/>
3520         <xsd:enumeration value="default"/>
3521         <xsd:enumeration value="docParts"/>
3522         <xsd:enumeration value="coverPg"/>
3523         <xsd:enumeration value="eq"/>
3524         <xsd:enumeration value="ftrs"/>
3525         <xsd:enumeration value="hdrs"/>
3526         <xsd:enumeration value="pgNum"/>
3527         <xsd:enumeration value="tbls"/>
3528         <xsd:enumeration value="watermarks"/>
3529         <xsd:enumeration value="autoTxt"/>
3530         <xsd:enumeration value="txtBox"/>
3531         <xsd:enumeration value="pgNumT"/>

```

```

3532     <xsd:enumeration value="pgNumB"/>
3533     <xsd:enumeration value="pgNumMargins"/>
3534     <xsd:enumeration value="tblOfContents"/>
3535     <xsd:enumeration value="bib"/>
3536     <xsd:enumeration value="custQuickParts"/>
3537     <xsd:enumeration value="custCoverPg"/>
3538     <xsd:enumeration value="custEq"/>
3539     <xsd:enumeration value="custFtrs"/>
3540     <xsd:enumeration value="custHdrs"/>
3541     <xsd:enumeration value="custPgNum"/>
3542     <xsd:enumeration value="custTbls"/>
3543     <xsd:enumeration value="custWatermarks"/>
3544     <xsd:enumeration value="custAutoTxt"/>
3545     <xsd:enumeration value="custTxtBox"/>
3546     <xsd:enumeration value="custPgNumT"/>
3547     <xsd:enumeration value="custPgNumB"/>
3548     <xsd:enumeration value="custPgNumMargins"/>
3549     <xsd:enumeration value="custTblOfContents"/>
3550     <xsd:enumeration value="custBib"/>
3551     <xsd:enumeration value="custom1"/>
3552     <xsd:enumeration value="custom2"/>
3553     <xsd:enumeration value="custom3"/>
3554     <xsd:enumeration value="custom4"/>
3555     <xsd:enumeration value="custom5"/>
3556 </xsd:restriction>
3557 </xsd:simpleType>
3558 <xsd:complexType name="CT_DocPartGallery">
3559   <xsd:attribute name="val" type="ST_DocPartGallery" use="required"/>
3560 </xsd:complexType>
3561 <xsd:complexType name="CT_DocPartCategory">
3562   <xsd:sequence>
3563     <xsd:element name="name" type="CT_String" minOccurs="1" maxOccurs="1"/>
3564     <xsd:element name="gallery" type="CT_DocPartGallery" minOccurs="1" maxOccurs="1"/>
3565   </xsd:sequence>
3566 </xsd:complexType>
3567 <xsd:complexType name="CT_DocPartName">
3568   <xsd:attribute name="val" type="s:ST_String" use="required"/>
3569   <xsd:attribute name="decorated" type="s:ST_OnOff" use="optional"/>
3570 </xsd:complexType>
3571 <xsd:complexType name="CT_DocPartPr">
3572   <xsd:choice maxOccurs="unbounded">
3573     <xsd:element name="name" type="CT_DocPartName" minOccurs="1"/>
3574     <xsd:element name="style" type="CT_String"/>
3575     <xsd:element name="category" type="CT_DocPartCategory"/>
3576     <xsd:element name="types" type="CT_DocPartTypes"/>
3577     <xsd:element name="behaviors" type="CT_DocPartBehaviors"/>
3578     <xsd:element name="description" type="CT_String"/>
3579     <xsd:element name="guid" type="CT_Guid"/>
3580   </xsd:choice>
3581 </xsd:complexType>
3582 <xsd:complexType name="CT_DocPart">
3583   <xsd:sequence>
3584     <xsd:element name="docPartPr" type="CT_DocPartPr" minOccurs="0"/>

```



```

3585     <xsd:element name="docPartBody" type="CT_Body" minOccurs="0"/>
3586   </xsd:sequence>
3587 </xsd:complexType>
3588 <xsd:complexType name="CT_DocParts">
3589   <xsd:choice>
3590     <xsd:element name="docPart" type="CT_DocPart" minOccurs="1" maxOccurs="unbounded"/>
3591   </xsd:choice>
3592 </xsd:complexType>
3593 <xsd:element name="settings" type="CT_Settings"/>
3594 <xsd:element name="webSettings" type="CT_WebSettings"/>
3595 <xsd:element name="fonts" type="CT_FontsList"/>
3596 <xsd:element name="numbering" type="CT_Numbering"/>
3597 <xsd:element name="styles" type="CT_Styles"/>
3598 <xsd:simpleType name="ST_CaptionPos">
3599   <xsd:restriction base="xsd:string">
3600     <xsd:enumeration value="above"/>
3601     <xsd:enumeration value="below"/>
3602     <xsd:enumeration value="left"/>
3603     <xsd:enumeration value="right"/>
3604   </xsd:restriction>
3605 </xsd:simpleType>
3606 <xsd:complexType name="CT_Caption">
3607   <xsd:attribute name="name" type="s:ST_String" use="required"/>
3608   <xsd:attribute name="pos" type="ST_CaptionPos" use="optional"/>
3609   <xsd:attribute name="chapNum" type="s:ST_OnOff" use="optional"/>
3610   <xsd:attribute name="heading" type="ST_DecimalNumber" use="optional"/>
3611   <xsd:attribute name="noLabel" type="s:ST_OnOff" use="optional"/>
3612   <xsd:attribute name="numFmt" type="ST_NumberFormat" use="optional"/>
3613   <xsd:attribute name="sep" type="ST_ChapterSep" use="optional"/>
3614 </xsd:complexType>
3615 <xsd:complexType name="CT_AutoCaption">
3616   <xsd:attribute name="name" type="s:ST_String" use="required"/>
3617   <xsd:attribute name="caption" type="s:ST_String" use="required"/>
3618 </xsd:complexType>
3619 <xsd:complexType name="CT_AutoCaptions">
3620   <xsd:sequence>
3621     <xsd:element name="autoCaption" type="CT_AutoCaption" minOccurs="1"
3622       maxOccurs="unbounded"/>
3623   </xsd:sequence>
3624 </xsd:complexType>
3625 <xsd:complexType name="CT_Captions">
3626   <xsd:sequence>
3627     <xsd:element name="caption" type="CT_Caption" minOccurs="1" maxOccurs="unbounded"/>
3628     <xsd:element name="autoCaptions" type="CT_AutoCaptions" minOccurs="0" maxOccurs="1"/>
3629   </xsd:sequence>
3630 </xsd:complexType>
3631 <xsd:complexType name="CT_DocumentBase">
3632   <xsd:sequence>
3633     <xsd:element name="background" type="CT_Background" minOccurs="0"/>
3634   </xsd:sequence>
3635 </xsd:complexType>
3636 <xsd:complexType name="CT_Document">
3637   <xsd:complexContent>

```

```

3638     <xsd:extension base="CT_DocumentBase">
3639         <xsd:sequence>
3640             <xsd:element name="body" type="CT_Body" minOccurs="0" maxOccurs="1"/>
3641         </xsd:sequence>
3642         <xsd:attribute name="conformance" type="s:ST_ConformanceClass"/>
3643     </xsd:extension>
3644 </xsd:complexContent>
3645 </xsd:complexType>
3646 <xsd:complexType name="CT_GlossaryDocument">
3647     <xsd:complexContent>
3648         <xsd:extension base="CT_DocumentBase">
3649             <xsd:sequence>
3650                 <xsd:element name="docParts" type="CT_DocParts" minOccurs="0"/>
3651             </xsd:sequence>
3652         </xsd:extension>
3653     </xsd:complexContent>
3654 </xsd:complexType>
3655 <xsd:element name="document" type="CT_Document"/>
3656 <xsd:element name="glossaryDocument" type="CT_GlossaryDocument"/>
3657 </xsd:schema>

```

## A.2 SpreadsheetML

This schema is available in the file sml.xsd.

```

1 <xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
2   xmlns="http://schemas.openxmlformats.org/spreadsheetml/2006/main"
3   xmlns:r="http://schemas.openxmlformats.org/officeDocument/2006/relationships"
4   xmlns:xdr="http://schemas.openxmlformats.org/drawingml/2006/spreadsheetDrawing"
5   xmlns:s="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes"
6   targetNamespace="http://schemas.openxmlformats.org/spreadsheetml/2006/main"
7   elementFormDefault="qualified">
8     <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/relationships"
9       schemaLocation="shared-relationshipReference.xsd"/>
10    <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes"
11      schemaLocation="shared-commonSimpleTypes.xsd"/>
12    <xsd:import namespace="http://schemas.openxmlformats.org/drawingml/2006/spreadsheetDrawing"
13      schemaLocation="dml-spreadsheetDrawing.xsd"/>
14    <xsd:complexType name="CT_AutoFilter">
15      <xsd:sequence>
16        <xsd:element name="filterColumn" minOccurs="0" maxOccurs="unbounded"
17          type="CT_FilterColumn"/>
18        <xsd:element name="sortState" minOccurs="0" maxOccurs="1" type="CT_SortState"/>
19        <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
20      </xsd:sequence>
21      <xsd:attribute name="ref" type="ST_Ref"/>
22    </xsd:complexType>
23    <xsd:complexType name="CT_FilterColumn">
24      <xsd:choice minOccurs="0" maxOccurs="1">
25        <xsd:element name="filters" type="CT_Filters" minOccurs="0" maxOccurs="1"/>
26        <xsd:element name="top10" type="CT_Top10" minOccurs="0" maxOccurs="1"/>
27        <xsd:element name="customFilters" type="CT_CustomFilters" minOccurs="0" maxOccurs="1"/>
28        <xsd:element name="dynamicFilter" type="CT_DynamicFilter" minOccurs="0" maxOccurs="1"/>

```



```

29     <xsd:element name="colorFilter" type="CT_ColorFilter" minOccurs="0" maxOccurs="1"/>
30     <xsd:element name="iconFilter" minOccurs="0" maxOccurs="1" type="CT_IconFilter"/>
31     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
32   </xsd:choice>
33   <xsd:attribute name="colId" type="xsd:unsignedInt" use="required"/>
34   <xsd:attribute name="hiddenButton" type="xsd:boolean" use="optional" default="false"/>
35   <xsd:attribute name="showButton" type="xsd:boolean" use="optional" default="true"/>
36 </xsd:complexType>
37 <xsd:complexType name="CT_Filters">
38   <xsd:sequence>
39     <xsd:element name="filter" type="CT_Filter" minOccurs="0" maxOccurs="unbounded"/>
40     <xsd:element name="dateGroupItem" type="CT_DateGroupItem" minOccurs="0"
41       maxOccurs="unbounded"/>
42   </xsd:sequence>
43   <xsd:attribute name="blank" type="xsd:boolean" use="optional" default="false"/>
44   <xsd:attribute name="calendarType" type="s:ST_CalendarType" use="optional" default="none"/>
45 </xsd:complexType>
46 <xsd:complexType name="CT_Filter">
47   <xsd:attribute name="val" type="s:ST_Xstring"/>
48 </xsd:complexType>
49 <xsd:complexType name="CT_CustomFilters">
50   <xsd:sequence>
51     <xsd:element name="customFilter" type="CT_CustomFilter" minOccurs="1" maxOccurs="2"/>
52   </xsd:sequence>
53   <xsd:attribute name="and" type="xsd:boolean" use="optional" default="false"/>
54 </xsd:complexType>
55 <xsd:complexType name="CT_CustomFilter">
56   <xsd:attribute name="operator" type="ST_FilterOperator" default="equal" use="optional"/>
57   <xsd:attribute name="val" type="s:ST_Xstring"/>
58 </xsd:complexType>
59 <xsd:complexType name="CT_Top10">
60   <xsd:attribute name="top" type="xsd:boolean" use="optional" default="true"/>
61   <xsd:attribute name="percent" type="xsd:boolean" use="optional" default="false"/>
62   <xsd:attribute name="val" type="xsd:double" use="required"/>
63   <xsd:attribute name="filterVal" type="xsd:double" use="optional"/>
64 </xsd:complexType>
65 <xsd:complexType name="CT_ColorFilter">
66   <xsd:attribute name="dxId" type="ST_DxfId" use="optional"/>
67   <xsd:attribute name="cellColor" type="xsd:boolean" use="optional" default="true"/>
68 </xsd:complexType>
69 <xsd:complexType name="CT_IconFilter">
70   <xsd:attribute name="iconSet" type="ST_IconSetType" use="required"/>
71   <xsd:attribute name="iconId" type="xsd:unsignedInt" use="optional"/>
72 </xsd:complexType>
73 <xsd:simpleType name="ST_FilterOperator">
74   <xsd:restriction base="xsd:string">
75     <xsd:enumeration value="equal"/>
76     <xsd:enumeration value="lessThan"/>
77     <xsd:enumeration value="lessThanOrEqual"/>
78     <xsd:enumeration value="notEqual"/>
79     <xsd:enumeration value="greaterThanOrEqual"/>
80     <xsd:enumeration value="greaterThan"/>
81   </xsd:restriction>

```

```

82 </xsd:simpleType>
83 <xsd:complexType name="CT_DynamicFilter">
84   <xsd:attribute name="type" type="ST_DynamicFilterType" use="required"/>
85   <xsd:attribute name="val" type="xsd:double" use="optional"/>
86   <xsd:attribute name="valIso" type="xsd:dateTime" use="optional"/>
87   <xsd:attribute name="maxVal" type="xsd:double" use="optional"/>
88   <xsd:attribute name="maxValIso" type="xsd:dateTime" use="optional"/>
89 </xsd:complexType>
90 <xsd:simpleType name="ST_DynamicFilterType">
91   <xsd:restriction base="xsd:string">
92     <xsd:enumeration value="null"/>
93     <xsd:enumeration value="aboveAverage"/>
94     <xsd:enumeration value="belowAverage"/>
95     <xsd:enumeration value="tomorrow"/>
96     <xsd:enumeration value="today"/>
97     <xsd:enumeration value="yesterday"/>
98     <xsd:enumeration value="nextWeek"/>
99     <xsd:enumeration value="thisWeek"/>
100    <xsd:enumeration value="lastWeek"/>
101    <xsd:enumeration value="nextMonth"/>
102    <xsd:enumeration value="thisMonth"/>
103    <xsd:enumeration value="lastMonth"/>
104    <xsd:enumeration value="nextQuarter"/>
105    <xsd:enumeration value="thisQuarter"/>
106    <xsd:enumeration value="lastQuarter"/>
107    <xsd:enumeration value="nextYear"/>
108    <xsd:enumeration value="thisYear"/>
109    <xsd:enumeration value="lastYear"/>
110    <xsd:enumeration value="yearToDate"/>
111    <xsd:enumeration value="Q1"/>
112    <xsd:enumeration value="Q2"/>
113    <xsd:enumeration value="Q3"/>
114    <xsd:enumeration value="Q4"/>
115    <xsd:enumeration value="M1"/>
116    <xsd:enumeration value="M2"/>
117    <xsd:enumeration value="M3"/>
118    <xsd:enumeration value="M4"/>
119    <xsd:enumeration value="M5"/>
120    <xsd:enumeration value="M6"/>
121    <xsd:enumeration value="M7"/>
122    <xsd:enumeration value="M8"/>
123    <xsd:enumeration value="M9"/>
124    <xsd:enumeration value="M10"/>
125    <xsd:enumeration value="M11"/>
126    <xsd:enumeration value="M12"/>
127   </xsd:restriction>
128 </xsd:simpleType>
129 <xsd:simpleType name="ST_IconSetType">
130   <xsd:restriction base="xsd:string">
131     <xsd:enumeration value="3Arrows"/>
132     <xsd:enumeration value="3ArrowsGray"/>
133     <xsd:enumeration value="3Flags"/>
134     <xsd:enumeration value="3TrafficLights1"/>

```

```

135     <xsd:enumeration value="3TrafficLights2"/>
136     <xsd:enumeration value="3Signs"/>
137     <xsd:enumeration value="3Symbols"/>
138     <xsd:enumeration value="3Symbols2"/>
139     <xsd:enumeration value="4Arrows"/>
140     <xsd:enumeration value="4ArrowsGray"/>
141     <xsd:enumeration value="4RedToBlack"/>
142     <xsd:enumeration value="4Rating"/>
143     <xsd:enumeration value="4TrafficLights"/>
144     <xsd:enumeration value="5Arrows"/>
145     <xsd:enumeration value="5ArrowsGray"/>
146     <xsd:enumeration value="5Rating"/>
147     <xsd:enumeration value="5Quarters"/>
148   </xsd:restriction>
149 </xsd:simpleType>
150 <xsd:complexType name="CT_SortState">
151   <xsd:sequence>
152     <xsd:element name="sortCondition" minOccurs="0" maxOccurs="64" type="CT_SortCondition"/>
153     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
154   </xsd:sequence>
155   <xsd:attribute name="columnSort" type="xsd:boolean" use="optional" default="false"/>
156   <xsd:attribute name="caseSensitive" type="xsd:boolean" use="optional" default="false"/>
157   <xsd:attribute name="sortMethod" type="ST_SortMethod" use="optional" default="none"/>
158   <xsd:attribute name="ref" type="ST_Ref" use="required"/>
159 </xsd:complexType>
160 <xsd:complexType name="CT_SortCondition">
161   <xsd:attribute name="descending" type="xsd:boolean" use="optional" default="false"/>
162   <xsd:attribute name="sortBy" type="ST_SortBy" use="optional" default="value"/>
163   <xsd:attribute name="ref" type="ST_Ref" use="required"/>
164   <xsd:attribute name="customList" type="s:ST_Xstring" use="optional"/>
165   <xsd:attribute name="dxfId" type="ST_DxfId" use="optional"/>
166   <xsd:attribute name="iconSet" type="ST_IconSetType" use="optional" default="3Arrows"/>
167   <xsd:attribute name="iconId" type="xsd:unsignedInt" use="optional"/>
168 </xsd:complexType>
169 <xsd:simpleType name="ST_SortBy">
170   <xsd:restriction base="xsd:string">
171     <xsd:enumeration value="value"/>
172     <xsd:enumeration value="cellColor"/>
173     <xsd:enumeration value="fontColor"/>
174     <xsd:enumeration value="icon"/>
175   </xsd:restriction>
176 </xsd:simpleType>
177 <xsd:simpleType name="ST_SortMethod">
178   <xsd:restriction base="xsd:string">
179     <xsd:enumeration value="stroke"/>
180     <xsd:enumeration value="pinYin"/>
181     <xsd:enumeration value="none"/>
182   </xsd:restriction>
183 </xsd:simpleType>
184 <xsd:complexType name="CT_DateGroupItem">
185   <xsd:attribute name="year" type="xsd:unsignedShort" use="required"/>
186   <xsd:attribute name="month" type="xsd:unsignedShort" use="optional"/>
187   <xsd:attribute name="day" type="xsd:unsignedShort" use="optional"/>

```

```

188     <xsd:attribute name="hour" type="xsd:unsignedShort" use="optional"/>
189     <xsd:attribute name="minute" type="xsd:unsignedShort" use="optional"/>
190     <xsd:attribute name="second" type="xsd:unsignedShort" use="optional"/>
191     <xsd:attribute name="dateTimeGrouping" type="ST_DateTimeGrouping" use="required"/>
192 </xsd:complexType>
193 <xsd:simpleType name="ST_DateTimeGrouping">
194     <xsd:restriction base="xsd:string">
195         <xsd:enumeration value="year"/>
196         <xsd:enumeration value="month"/>
197         <xsd:enumeration value="day"/>
198         <xsd:enumeration value="hour"/>
199         <xsd:enumeration value="minute"/>
200         <xsd:enumeration value="second"/>
201     </xsd:restriction>
202 </xsd:simpleType>
203 <xsd:simpleType name="ST_CellRef">
204     <xsd:restriction base="xsd:string"/>
205 </xsd:simpleType>
206 <xsd:simpleType name="ST_Ref">
207     <xsd:restriction base="xsd:string"/>
208 </xsd:simpleType>
209 <xsd:simpleType name="ST_RefA">
210     <xsd:restriction base="xsd:string"/>
211 </xsd:simpleType>
212 <xsd:simpleType name="ST_Sqref">
213     <xsd:list itemType="ST_Ref"/>
214 </xsd:simpleType>
215 <xsd:simpleType name="ST_Formula">
216     <xsd:restriction base="s:ST_Xstring"/>
217 </xsd:simpleType>
218 <xsd:simpleType name="ST_UnsignedIntHex">
219     <xsd:restriction base="xsd:hexBinary">
220         <xsd:length value="4"/>
221     </xsd:restriction>
222 </xsd:simpleType>
223 <xsd:simpleType name="ST_UnsignedShortHex">
224     <xsd:restriction base="xsd:hexBinary">
225         <xsd:length value="2"/>
226     </xsd:restriction>
227 </xsd:simpleType>
228 <xsd:complexType name="CT_XStringElement">
229     <xsd:attribute name="v" type="s:ST_Xstring" use="required"/>
230 </xsd:complexType>
231 <xsd:complexType name="CT_Extension">
232     <xsd:sequence>
233         <xsd:any processContents="lax"/>
234     </xsd:sequence>
235     <xsd:attribute name="uri" type="xsd:token"/>
236 </xsd:complexType>
237 <xsd:complexType name="CT_ObjectAnchor">
238     <xsd:sequence>
239         <xsd:element ref="xdr:from" minOccurs="1" maxOccurs="1"/>
240         <xsd:element ref="xdr:to" minOccurs="1" maxOccurs="1"/>

```

```

241     </xsd:sequence>
242     <xsd:attribute name="moveWithCells" type="xsd:boolean" use="optional" default="false"/>
243     <xsd:attribute name="sizeWithCells" type="xsd:boolean" use="optional" default="false"/>
244     <xsd:attribute name="z-order" type="xsd:unsignedInt" use="optional"/>
245 </xsd:complexType>
246 <xsd:group name="EG_ExtensionList">
247     <xsd:sequence>
248         <xsd:element name="ext" type="CT_Extension" minOccurs="0" maxOccurs="unbounded"/>
249     </xsd:sequence>
250 </xsd:group>
251 <xsd:complexType name="CT_ExtensionList">
252     <xsd:sequence>
253         <xsd:group ref="EG_ExtensionList" minOccurs="0"/>
254     </xsd:sequence>
255 </xsd:complexType>
256 <xsd:element name="calcChain" type="CT_CalcChain"/>
257 <xsd:complexType name="CT_CalcChain">
258     <xsd:sequence>
259         <xsd:element name="c" type="CT_CalcCell" minOccurs="1" maxOccurs="unbounded"/>
260         <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>
261     </xsd:sequence>
262 </xsd:complexType>
263 <xsd:complexType name="CT_CalcCell">
264     <xsd:attribute name="r" type="ST_CellRef" use="optional"/>
265     <xsd:attribute name="ref" type="ST_CellRef" use="optional"/>
266     <xsd:attribute name="i" type="xsd:int" use="optional" default="0"/>
267     <xsd:attribute name="s" type="xsd:boolean" use="optional" default="false"/>
268     <xsd:attribute name="l" type="xsd:boolean" use="optional" default="false"/>
269     <xsd:attribute name="t" type="xsd:boolean" use="optional" default="false"/>
270     <xsd:attribute name="a" type="xsd:boolean" use="optional" default="false"/>
271 </xsd:complexType>
272 <xsd:element name="comments" type="CT_Comments"/>
273 <xsd:complexType name="CT_Comments">
274     <xsd:sequence>
275         <xsd:element name="authors" type="CT_Authors" minOccurs="1" maxOccurs="1"/>
276         <xsd:element name="commentList" type="CT_CommentList" minOccurs="1" maxOccurs="1"/>
277         <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>
278     </xsd:sequence>
279 </xsd:complexType>
280 <xsd:complexType name="CT_Authors">
281     <xsd:sequence>
282         <xsd:element name="author" type="s:ST_Xstring" minOccurs="0" maxOccurs="unbounded"/>
283     </xsd:sequence>
284 </xsd:complexType>
285 <xsd:complexType name="CT_CommentList">
286     <xsd:sequence>
287         <xsd:element name="comment" type="CT_Comment" minOccurs="0" maxOccurs="unbounded"/>
288     </xsd:sequence>
289 </xsd:complexType>
290 <xsd:complexType name="CT_Comment">
291     <xsd:sequence>
292         <xsd:element name="text" type="CT_Rst" minOccurs="1" maxOccurs="1"/>
293         <xsd:element name="commentPr" type="CT_CommentPr" minOccurs="0" maxOccurs="1"/>

```

```

294     </xsd:sequence>
295     <xsd:attribute name="ref" type="ST_Ref" use="required"/>
296     <xsd:attribute name="authorId" type="xsd:unsignedInt" use="required"/>
297     <xsd:attribute name="guid" type="s:ST_Guid" use="optional"/>
298     <xsd:attribute name="shapeId" type="xsd:unsignedInt" use="optional"/>
299 </xsd:complexType>
300 <xsd:complexType name="CT_CommentPr">
301     <xsd:sequence>
302         <xsd:element name="anchor" type="CT_ObjectAnchor" minOccurs="1" maxOccurs="1"/>
303     </xsd:sequence>
304     <xsd:attribute name="locked" type="xsd:boolean" use="optional" default="true"/>
305     <xsd:attribute name="defaultSize" type="xsd:boolean" use="optional" default="true"/>
306     <xsd:attribute name="print" type="xsd:boolean" use="optional" default="true"/>
307     <xsd:attribute name="disabled" type="xsd:boolean" use="optional" default="false"/>
308     <xsd:attribute name="uiObject" type="xsd:boolean" use="optional" default="false"/>
309     <xsd:attribute name="autoFill" type="xsd:boolean" use="optional" default="true"/>
310     <xsd:attribute name="autoLine" type="xsd:boolean" use="optional" default="true"/>
311     <xsd:attribute name="altText" type="s:ST_Xstring" use="optional"/>
312     <xsd:attribute name="textHAlign" type="ST_TextHAlign" use="optional" default="left"/>
313     <xsd:attribute name="textVAlign" type="ST_TextVAlign" use="optional" default="top"/>
314     <xsd:attribute name="lockText" type="xsd:boolean" use="optional" default="true"/>
315     <xsd:attribute name="justLastX" type="xsd:boolean" use="optional" default="false"/>
316     <xsd:attribute name="autoScale" type="xsd:boolean" use="optional" default="false"/>
317     <xsd:attribute name="rowHidden" type="xsd:boolean" use="optional" default="false"/>
318     <xsd:attribute name="colHidden" type="xsd:boolean" use="optional" default="false"/>
319 </xsd:complexType>
320 <xsd:simpleType name="ST_TextHAlign">
321     <xsd:restriction base="xsd:string">
322         <xsd:enumeration value="left"/>
323         <xsd:enumeration value="center"/>
324         <xsd:enumeration value="right"/>
325         <xsd:enumeration value="justify"/>
326         <xsd:enumeration value="distributed"/>
327     </xsd:restriction>
328 </xsd:simpleType>
329 <xsd:simpleType name="ST_TextVAlign">
330     <xsd:restriction base="xsd:string">
331         <xsd:enumeration value="top"/>
332         <xsd:enumeration value="center"/>
333         <xsd:enumeration value="bottom"/>
334         <xsd:enumeration value="justify"/>
335         <xsd:enumeration value="distributed"/>
336     </xsd:restriction>
337 </xsd:simpleType>
338 <xsd:element name="MapInfo" type="CT_MapInfo"/>
339 <xsd:complexType name="CT_MapInfo">
340     <xsd:sequence>
341         <xsd:element name="Schema" type="CT_Schema" minOccurs="1" maxOccurs="unbounded"/>
342         <xsd:element name="Map" type="CT_Map" minOccurs="1" maxOccurs="unbounded"/>
343     </xsd:sequence>
344     <xsd:attribute name="SelectionNamespaces" type="xsd:string" use="required"/>
345 </xsd:complexType>
346 <xsd:complexType name="CT_Schema" mixed="true">

```



```

347     <xsd:sequence>
348         <xsd:any/>
349     </xsd:sequence>
350     <xsd:attribute name="ID" type="xsd:string" use="required"/>
351     <xsd:attribute name="SchemaRef" type="xsd:string" use="optional"/>
352     <xsd:attribute name="Namespace" type="xsd:string" use="optional"/>
353     <xsd:attribute name="SchemaLanguage" type="xsd:token" use="optional"/>
354 </xsd:complexType>
355 <xsd:complexType name="CT_Map">
356     <xsd:sequence>
357         <xsd:element name="DataBinding" type="CT_DataBinding" minOccurs="0" maxOccurs="1"/>
358     </xsd:sequence>
359     <xsd:attribute name="ID" type="xsd:unsignedInt" use="required"/>
360     <xsd:attribute name="Name" type="xsd:string" use="required"/>
361     <xsd:attribute name="RootElement" type="xsd:string" use="required"/>
362     <xsd:attribute name="SchemaID" type="xsd:string" use="required"/>
363     <xsd:attribute name="ShowImportExportValidationErrors" type="xsd:boolean" use="required"/>
364     <xsd:attribute name="AutoFit" type="xsd:boolean" use="required"/>
365     <xsd:attribute name="Append" type="xsd:boolean" use="required"/>
366     <xsd:attribute name="PreserveSortAFLayout" type="xsd:boolean" use="required"/>
367     <xsd:attribute name="PreserveFormat" type="xsd:boolean" use="required"/>
368 </xsd:complexType>
369 <xsd:complexType name="CT_DataBinding">
370     <xsd:sequence>
371         <xsd:any/>
372     </xsd:sequence>
373     <xsd:attribute name="DataBindingName" type="xsd:string" use="optional"/>
374     <xsd:attribute name="FileBinding" type="xsd:boolean" use="optional"/>
375     <xsd:attribute name="ConnectionID" type="xsd:unsignedInt" use="optional"/>
376     <xsd:attribute name="FileBindingName" type="xsd:string" use="optional"/>
377     <xsd:attribute name="DataBindingLoadMode" type="xsd:unsignedInt" use="required"/>
378 </xsd:complexType>
379 <xsd:element name="connections" type="CT_Connections"/>
380 <xsd:complexType name="CT_Connections">
381     <xsd:sequence>
382         <xsd:element name="connection" minOccurs="1" maxOccurs="unbounded" type="CT_Connection"/>
383     </xsd:sequence>
384 </xsd:complexType>
385 <xsd:complexType name="CT_Connection">
386     <xsd:sequence>
387         <xsd:element name="dbPr" minOccurs="0" maxOccurs="1" type="CT_DbPr"/>
388         <xsd:element name="olapPr" minOccurs="0" maxOccurs="1" type="CT_OlapPr"/>
389         <xsd:element name="webPr" minOccurs="0" maxOccurs="1" type="CT_WebPr"/>
390         <xsd:element name="textPr" minOccurs="0" maxOccurs="1" type="CT_TextPr"/>
391         <xsd:element name="parameters" minOccurs="0" maxOccurs="1" type="CT_Parameters"/>
392         <xsd:element name="extLst" minOccurs="0" maxOccurs="1" type="CT_ExtensionList"/>
393     </xsd:sequence>
394     <xsd:attribute name="id" use="required" type="xsd:unsignedInt"/>
395     <xsd:attribute name="sourceFile" use="optional" type="s:ST_Xstring"/>
396     <xsd:attribute name="odcFile" use="optional" type="s:ST_Xstring"/>
397     <xsd:attribute name="keepAlive" use="optional" type="xsd:boolean" default="false"/>
398     <xsd:attribute name="interval" use="optional" type="xsd:unsignedInt" default="0"/>
399     <xsd:attribute name="name" use="optional" type="s:ST_Xstring"/>

```

```

400 <xsd:attribute name="description" use="optional" type="s:ST_Xstring"/>
401 <xsd:attribute name="type" use="optional" type="xsd:unsignedInt"/>
402 <xsd:attribute name="reconnectionMethod" use="optional" type="xsd:unsignedInt" default="1"/>
403 <xsd:attribute name="refreshedVersion" use="required" type="xsd:unsignedByte"/>
404 <xsd:attribute name="minRefreshableVersion" use="optional" type="xsd:unsignedByte"
405     default="0"/>
406 <xsd:attribute name="savePassword" use="optional" type="xsd:boolean" default="false"/>
407 <xsd:attribute name="new" use="optional" type="xsd:boolean" default="false"/>
408 <xsd:attribute name="deleted" use="optional" type="xsd:boolean" default="false"/>
409 <xsd:attribute name="onlyUseConnectionFile" use="optional" type="xsd:boolean"
410     default="false"/>
411 <xsd:attribute name="background" use="optional" type="xsd:boolean" default="false"/>
412 <xsd:attribute name="refreshOnLoad" use="optional" type="xsd:boolean" default="false"/>
413 <xsd:attribute name="saveData" use="optional" type="xsd:boolean" default="false"/>
414 <xsd:attribute name="credentials" use="optional" type="ST_CredMethod" default="integrated"/>
415 <xsd:attribute name="singleSignOnId" use="optional" type="s:ST_Xstring"/>
416 </xsd:complexType>
417 <xsd:simpleType name="ST_CredMethod">
418     <xsd:restriction base="xsd:string">
419         <xsd:enumeration value="integrated"/>
420         <xsd:enumeration value="none"/>
421         <xsd:enumeration value="stored"/>
422         <xsd:enumeration value="prompt"/>
423     </xsd:restriction>
424 </xsd:simpleType>
425 <xsd:complexType name="CT_DbPr">
426     <xsd:attribute name="connection" use="required" type="s:ST_Xstring"/>
427     <xsd:attribute name="command" use="optional" type="s:ST_Xstring"/>
428     <xsd:attribute name="serverCommand" use="optional" type="s:ST_Xstring"/>
429     <xsd:attribute name="commandType" use="optional" type="xsd:unsignedInt" default="2"/>
430 </xsd:complexType>
431 <xsd:complexType name="CT_OlapPr">
432     <xsd:attribute name="local" use="optional" type="xsd:boolean" default="false"/>
433     <xsd:attribute name="localConnection" use="optional" type="s:ST_Xstring"/>
434     <xsd:attribute name="localRefresh" use="optional" type="xsd:boolean" default="true"/>
435     <xsd:attribute name="sendLocale" use="optional" type="xsd:boolean" default="false"/>
436     <xsd:attribute name="rowDrillCount" use="optional" type="xsd:unsignedInt"/>
437     <xsd:attribute name="serverFill" use="optional" type="xsd:boolean" default="true"/>
438     <xsd:attribute name="serverNumberFormat" use="optional" type="xsd:boolean" default="true"/>
439     <xsd:attribute name="serverFont" use="optional" type="xsd:boolean" default="true"/>
440     <xsd:attribute name="serverFontColor" use="optional" type="xsd:boolean" default="true"/>
441 </xsd:complexType>
442 <xsd:complexType name="CT_WebPr">
443     <xsd:sequence>
444         <xsd:element name="tables" minOccurs="0" maxOccurs="1" type="CT_Tables"/>
445     </xsd:sequence>
446     <xsd:attribute name="xml" use="optional" type="xsd:boolean" default="false"/>
447     <xsd:attribute name="sourceData" use="optional" type="xsd:boolean" default="false"/>
448     <xsd:attribute name="parsePre" use="optional" type="xsd:boolean" default="false"/>
449     <xsd:attribute name="consecutive" use="optional" type="xsd:boolean" default="false"/>
450     <xsd:attribute name="firstRow" use="optional" type="xsd:boolean" default="false"/>
451     <xsd:attribute name="xl97" use="optional" type="xsd:boolean" default="false"/>
452     <xsd:attribute name="textDates" use="optional" type="xsd:boolean" default="false"/>

```



```

453     <xsd:attribute name="xl2000" use="optional" type="xsd:boolean" default="false"/>
454     <xsd:attribute name="url" use="optional" type="s:ST_Xstring"/>
455     <xsd:attribute name="post" use="optional" type="s:ST_Xstring"/>
456     <xsd:attribute name="htmlTables" use="optional" type="xsd:boolean" default="false"/>
457     <xsd:attribute name="htmlFormat" use="optional" type="ST_HtmlFmt" default="none"/>
458     <xsd:attribute name="editPage" use="optional" type="s:ST_Xstring"/>
459 </xsd:complexType>
460 <xsd:simpleType name="ST_HtmlFmt">
461     <xsd:restriction base="xsd:string">
462         <xsd:enumeration value="none"/>
463         <xsd:enumeration value="rtf"/>
464         <xsd:enumeration value="all"/>
465     </xsd:restriction>
466 </xsd:simpleType>
467 <xsd:complexType name="CT_Parameters">
468     <xsd:sequence>
469         <xsd:element name="parameter" minOccurs="1" maxOccurs="unbounded" type="CT_Parameter"/>
470     </xsd:sequence>
471     <xsd:attribute name="count" use="optional" type="xsd:unsignedInt"/>
472 </xsd:complexType>
473 <xsd:complexType name="CT_Parameter">
474     <xsd:attribute name="name" use="optional" type="s:ST_Xstring"/>
475     <xsd:attribute name="sqlType" use="optional" type="xsd:int" default="0"/>
476     <xsd:attribute name="parameterType" use="optional" type="ST_ParameterType" default="prompt"/>
477     <xsd:attribute name="refreshOnChange" use="optional" type="xsd:boolean" default="false"/>
478     <xsd:attribute name="prompt" use="optional" type="s:ST_Xstring"/>
479     <xsd:attribute name="boolean" use="optional" type="xsd:boolean"/>
480     <xsd:attribute name="double" use="optional" type="xsd:double"/>
481     <xsd:attribute name="integer" use="optional" type="xsd:int"/>
482     <xsd:attribute name="string" use="optional" type="s:ST_Xstring"/>
483     <xsd:attribute name="cell" use="optional" type="s:ST_Xstring"/>
484 </xsd:complexType>
485 <xsd:simpleType name="ST_ParameterType">
486     <xsd:restriction base="xsd:string">
487         <xsd:enumeration value="prompt"/>
488         <xsd:enumeration value="value"/>
489         <xsd:enumeration value="cell"/>
490     </xsd:restriction>
491 </xsd:simpleType>
492 <xsd:complexType name="CT_Tables">
493     <xsd:choice minOccurs="1" maxOccurs="unbounded">
494         <xsd:element name="m" type="CT_TableMissing"/>
495         <xsd:element name="s" type="CT_XStringElement"/>
496         <xsd:element name="x" type="CT_Index"/>
497     </xsd:choice>
498     <xsd:attribute name="count" use="optional" type="xsd:unsignedInt"/>
499 </xsd:complexType>
500 <xsd:complexType name="CT_TableMissing"/>
501 <xsd:complexType name="CT_TextPr">
502     <xsd:sequence>
503         <xsd:element name="textFields" minOccurs="0" maxOccurs="1" type="CT_TextFields"/>
504     </xsd:sequence>
505     <xsd:attribute name="prompt" use="optional" type="xsd:boolean" default="true"/>

```

```

506 <xsd:attribute name="fileType" use="optional" type="ST_FileType" default="win"/>
507 <xsd:attribute name="codePage" use="optional" type="xsd:unsignedInt" default="1252"/>
508 <xsd:attribute name="characterSet" use="optional" type="xsd:string"/>
509 <xsd:attribute name="firstRow" use="optional" type="xsd:unsignedInt" default="1"/>
510 <xsd:attribute name="sourceFile" use="optional" type="s:ST_Xstring" default=""/>
511 <xsd:attribute name="delimited" use="optional" type="xsd:boolean" default="true"/>
512 <xsd:attribute name="decimal" use="optional" type="s:ST_Xstring" default="."/>
513 <xsd:attribute name="thousands" use="optional" type="s:ST_Xstring" default=","/>
514 <xsd:attribute name="tab" use="optional" type="xsd:boolean" default="true"/>
515 <xsd:attribute name="space" use="optional" type="xsd:boolean" default="false"/>
516 <xsd:attribute name="comma" use="optional" type="xsd:boolean" default="false"/>
517 <xsd:attribute name="semicolon" use="optional" type="xsd:boolean" default="false"/>
518 <xsd:attribute name="consecutive" use="optional" type="xsd:boolean" default="false"/>
519 <xsd:attribute name="qualifier" use="optional" type="ST_Qualifier" default="doubleQuote"/>
520 <xsd:attribute name="delimiter" use="optional" type="s:ST_Xstring"/>
521 </xsd:complexType>
522 <xsd:simpleType name="ST_FileType">
523   <xsd:restriction base="xsd:string">
524     <xsd:enumeration value="mac"/>
525     <xsd:enumeration value="win"/>
526     <xsd:enumeration value="dos"/>
527     <xsd:enumeration value="lin"/>
528     <xsd:enumeration value="other"/>
529   </xsd:restriction>
530 </xsd:simpleType>
531 <xsd:simpleType name="ST_Qualifier">
532   <xsd:restriction base="xsd:string">
533     <xsd:enumeration value="doubleQuote"/>
534     <xsd:enumeration value="singleQuote"/>
535     <xsd:enumeration value="none"/>
536   </xsd:restriction>
537 </xsd:simpleType>
538 <xsd:complexType name="CT_TextFields">
539   <xsd:sequence>
540     <xsd:element name="textField" minOccurs="1" maxOccurs="unbounded" type="CT_TextField"/>
541   </xsd:sequence>
542   <xsd:attribute name="count" use="optional" type="xsd:unsignedInt" default="1"/>
543 </xsd:complexType>
544 <xsd:complexType name="CT_TextField">
545   <xsd:attribute name="type" use="optional" type="ST_ExternalConnectionType" default="general"/>
546   <xsd:attribute name="position" use="optional" type="xsd:unsignedInt" default="0"/>
547 </xsd:complexType>
548 <xsd:simpleType name="ST_ExternalConnectionType">
549   <xsd:restriction base="xsd:string">
550     <xsd:enumeration value="general"/>
551     <xsd:enumeration value="text"/>
552     <xsd:enumeration value="MDY"/>
553     <xsd:enumeration value="DMY"/>
554     <xsd:enumeration value="YMD"/>
555     <xsd:enumeration value="MYD"/>
556     <xsd:enumeration value="DYM"/>
557     <xsd:enumeration value="YDM"/>
558     <xsd:enumeration value="skip"/>

```

```

559     <xsd:enumeration value="EMD"/>
560   </xsd:restriction>
561 </xsd:simpleType>
562 <xsd:element name="pivotCacheDefinition" type="CT_PivotCacheDefinition"/>
563 <xsd:element name="pivotCacheRecords" type="CT_PivotCacheRecords"/>
564 <xsd:element name="pivotTableDefinition" type="CT_pivotTableDefinition"/>
565 <xsd:complexType name="CT_PivotCacheDefinition">
566   <xsd:sequence>
567     <xsd:element name="cacheSource" type="CT_CacheSource" minOccurs="1" maxOccurs="1"/>
568     <xsd:element name="cacheFields" type="CT_CacheFields" minOccurs="1" maxOccurs="1"/>
569     <xsd:element name="cacheHierarchies" minOccurs="0" type="CT_CacheHierarchies"/>
570     <xsd:element name="kpis" minOccurs="0" type="CT_PCDKPIs"/>
571     <xsd:element name="tupleCache" minOccurs="0" type="CT_TupleCache"/>
572     <xsd:element name="calculatedItems" minOccurs="0" type="CT_CalculatedItems"/>
573     <xsd:element name="calculatedMembers" type="CT_CalculatedMembers" minOccurs="0"/>
574     <xsd:element name="dimensions" type="CT_Dimensions" minOccurs="0"/>
575     <xsd:element name="measureGroups" type="CT_MeasureGroups" minOccurs="0"/>
576     <xsd:element name="maps" type="CT_MeasureDimensionMaps" minOccurs="0"/>
577     <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>
578   </xsd:sequence>
579   <xsd:attribute ref="r:id" use="optional"/>
580   <xsd:attribute name="invalid" type="xsd:boolean" use="optional" default="false"/>
581   <xsd:attribute name="saveData" type="xsd:boolean" use="optional" default="true"/>
582   <xsd:attribute name="refreshOnLoad" type="xsd:boolean" use="optional" default="false"/>
583   <xsd:attribute name="optimizeMemory" type="xsd:boolean" use="optional" default="false"/>
584   <xsd:attribute name="enableRefresh" type="xsd:boolean" use="optional" default="true"/>
585   <xsd:attribute name="refreshedBy" type="s:ST_Xstring" use="optional"/>
586   <xsd:attribute name="refreshedDate" type="xsd:double" use="optional"/>
587   <xsd:attribute name="refreshedDateIso" type="xsd:dateTime" use="optional"/>
588   <xsd:attribute name="backgroundQuery" type="xsd:boolean" default="false"/>
589   <xsd:attribute name="missingItemsLimit" type="xsd:unsignedInt" use="optional"/>
590   <xsd:attribute name="createdVersion" type="xsd:unsignedByte" use="optional" default="0"/>
591   <xsd:attribute name="refreshedVersion" type="xsd:unsignedByte" use="optional" default="0"/>
592   <xsd:attribute name="minRefreshableVersion" type="xsd:unsignedByte" use="optional"
593     default="0"/>
594   <xsd:attribute name="recordCount" type="xsd:unsignedInt" use="optional"/>
595   <xsd:attribute name="upgradeOnRefresh" type="xsd:boolean" use="optional" default="false"/>
596   <xsd:attribute name="tupleCache" type="xsd:boolean" use="optional" default="false"/>
597   <xsd:attribute name="supportSubquery" type="xsd:boolean" use="optional" default="false"/>
598   <xsd:attribute name="supportAdvancedDrill" type="xsd:boolean" use="optional" default="false"/>
599 </xsd:complexType>
600 <xsd:complexType name="CT_CacheFields">
601   <xsd:sequence>
602     <xsd:element name="cacheField" type="CT_CacheField" minOccurs="0" maxOccurs="unbounded"/>
603   </xsd:sequence>
604   <xsd:attribute name="count" type="xsd:unsignedInt"/>
605 </xsd:complexType>
606 <xsd:complexType name="CT_CacheField">
607   <xsd:sequence>
608     <xsd:element name="sharedItems" type="CT_SharedItems" minOccurs="0" maxOccurs="1"/>
609     <xsd:element name="fieldGroup" minOccurs="0" type="CT_FieldGroup"/>
610     <xsd:element name="mpMap" minOccurs="0" maxOccurs="unbounded" type="CT_X"/>
611     <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>

```

```

612     </xsd:sequence>
613     <xsd:attribute name="name" type="s:ST Xstring" use="required"/>
614     <xsd:attribute name="caption" type="s:ST Xstring" use="optional"/>
615     <xsd:attribute name="propertyName" type="s:ST Xstring" use="optional"/>
616     <xsd:attribute name="serverField" type="xsd:boolean" use="optional" default="false"/>
617     <xsd:attribute name="uniqueList" type="xsd:boolean" use="optional" default="true"/>
618     <xsd:attribute name="numFmtId" type="ST NumFmtId" use="optional"/>
619     <xsd:attribute name="formula" type="s:ST Xstring" use="optional"/>
620     <xsd:attribute name="sqlType" type="xsd:int" use="optional" default="0"/>
621     <xsd:attribute name="hierarchy" type="xsd:int" use="optional" default="0"/>
622     <xsd:attribute name="level" type="xsd:unsignedInt" use="optional" default="0"/>
623     <xsd:attribute name="databaseField" type="xsd:boolean" default="true"/>
624     <xsd:attribute name="mappingCount" type="xsd:unsignedInt" use="optional"/>
625     <xsd:attribute name="memberPropertyField" type="xsd:boolean" use="optional" default="false"/>
626 </xsd:complexType>
627 <xsd:complexType name="CT_CacheSource">
628     <xsd:choice minOccurs="0" maxOccurs="1">
629         <xsd:element name="worksheetSource" type="CT WorksheetSource" minOccurs="1"
630             maxOccurs="1"/>
631         <xsd:element name="consolidation" type="CT Consolidation" minOccurs="1" maxOccurs="1"/>
632         <xsd:element name="extLst" type="CT ExtensionList" minOccurs="0"/>
633     </xsd:choice>
634     <xsd:attribute name="type" type="ST SourceType" use="required"/>
635     <xsd:attribute name="connectionId" type="xsd:unsignedInt" default="0" use="optional"/>
636 </xsd:complexType>
637 <xsd:simpleType name="ST_SourceType">
638     <xsd:restriction base="xsd:string">
639         <xsd:enumeration value="worksheet"/>
640         <xsd:enumeration value="external"/>
641         <xsd:enumeration value="consolidation"/>
642         <xsd:enumeration value="scenario"/>
643     </xsd:restriction>
644 </xsd:simpleType>
645 <xsd:complexType name="CT_WorksheetSource">
646     <xsd:attribute name="ref" type="ST Ref" use="optional"/>
647     <xsd:attribute name="name" type="s:ST Xstring" use="optional"/>
648     <xsd:attribute name="sheet" type="s:ST Xstring" use="optional"/>
649     <xsd:attribute ref="r:id" use="optional"/>
650 </xsd:complexType>
651 <xsd:complexType name="CT_Consolidation">
652     <xsd:sequence>
653         <xsd:element name="pages" type="CT Pages" minOccurs="0" maxOccurs="1"/>
654         <xsd:element name="rangeSets" type="CT RangeSets" minOccurs="1" maxOccurs="1"/>
655     </xsd:sequence>
656     <xsd:attribute name="autoPage" type="xsd:boolean" default="true" use="optional"/>
657 </xsd:complexType>
658 <xsd:complexType name="CT_Pages">
659     <xsd:sequence>
660         <xsd:element name="page" type="CT PCDSPage" minOccurs="1" maxOccurs="4"/>
661     </xsd:sequence>
662     <xsd:attribute name="count" type="xsd:unsignedInt" use="optional"/>
663 </xsd:complexType>
664 <xsd:complexType name="CT_PCDSPage">

```

```

665     <xsd:sequence>
666         <xsd:element name="pageItem" type="CT_PageItem" minOccurs="0" maxOccurs="unbounded"/>
667     </xsd:sequence>
668     <xsd:attribute name="count" type="xsd:unsignedInt" use="optional"/>
669 </xsd:complexType>
670 <xsd:complexType name="CT_PageItem">
671     <xsd:attribute name="name" type="s:ST_Xstring" use="required"/>
672 </xsd:complexType>
673 <xsd:complexType name="CT_RangeSets">
674     <xsd:sequence>
675         <xsd:element name="rangeSet" type="CT_RangeSet" minOccurs="1" maxOccurs="unbounded"/>
676     </xsd:sequence>
677     <xsd:attribute name="count" type="xsd:unsignedInt" use="optional"/>
678 </xsd:complexType>
679 <xsd:complexType name="CT_RangeSet">
680     <xsd:attribute name="i1" type="xsd:unsignedInt" use="optional"/>
681     <xsd:attribute name="i2" type="xsd:unsignedInt" use="optional"/>
682     <xsd:attribute name="i3" type="xsd:unsignedInt" use="optional"/>
683     <xsd:attribute name="i4" type="xsd:unsignedInt" use="optional"/>
684     <xsd:attribute name="ref" type="ST_Ref" use="optional"/>
685     <xsd:attribute name="name" type="s:ST_Xstring" use="optional"/>
686     <xsd:attribute name="sheet" type="s:ST_Xstring" use="optional"/>
687     <xsd:attribute ref="r:id" use="optional"/>
688 </xsd:complexType>
689 <xsd:complexType name="CT_SharedItems">
690     <xsd:choice minOccurs="0" maxOccurs="unbounded">
691         <xsd:element name="m" type="CT_Missing" minOccurs="1" maxOccurs="1"/>
692         <xsd:element name="n" type="CT_Number" minOccurs="1" maxOccurs="1"/>
693         <xsd:element name="b" type="CT_Boolean" minOccurs="1" maxOccurs="1"/>
694         <xsd:element name="e" type="CT_Error" minOccurs="1" maxOccurs="1"/>
695         <xsd:element name="s" type="CT_String" minOccurs="1" maxOccurs="1"/>
696         <xsd:element name="d" type="CT_DateTime" minOccurs="1" maxOccurs="1"/>
697     </xsd:choice>
698     <xsd:attribute name="containsSemiMixedTypes" type="xsd:boolean" use="optional"
699         default="true"/>
700     <xsd:attribute name="containsNonDate" type="xsd:boolean" use="optional" default="true"/>
701     <xsd:attribute name="containsDate" type="xsd:boolean" use="optional" default="false"/>
702     <xsd:attribute name="containsString" type="xsd:boolean" use="optional" default="true"/>
703     <xsd:attribute name="containsBlank" type="xsd:boolean" use="optional" default="false"/>
704     <xsd:attribute name="containsMixedTypes" type="xsd:boolean" use="optional" default="false"/>
705     <xsd:attribute name="containsNumber" type="xsd:boolean" use="optional" default="false"/>
706     <xsd:attribute name="containsInteger" type="xsd:boolean" use="optional" default="false"/>
707     <xsd:attribute name="minValue" type="xsd:double" use="optional"/>
708     <xsd:attribute name="maxValue" type="xsd:double" use="optional"/>
709     <xsd:attribute name="minDate" type="xsd:dateTime" use="optional"/>
710     <xsd:attribute name="maxDate" type="xsd:dateTime" use="optional"/>
711     <xsd:attribute name="count" type="xsd:unsignedInt" use="optional"/>
712     <xsd:attribute name="longText" type="xsd:boolean" use="optional" default="false"/>
713 </xsd:complexType>
714 <xsd:complexType name="CT_Missing">
715     <xsd:sequence>
716         <xsd:element name="tpls" minOccurs="0" maxOccurs="unbounded" type="CT_Tuples"/>
717         <xsd:element name="x" minOccurs="0" maxOccurs="unbounded" type="CT_X"/>

```

```

718     </xsd:sequence>
719     <xsd:attribute name="u" type="xsd:boolean"/>
720     <xsd:attribute name="f" type="xsd:boolean"/>
721     <xsd:attribute name="c" type="s:ST_Xstring"/>
722     <xsd:attribute name="cp" type="xsd:unsignedInt"/>
723     <xsd:attribute name="in" type="xsd:unsignedInt" use="optional"/>
724     <xsd:attribute name="bc" type="ST UnsignedIntHex" use="optional"/>
725     <xsd:attribute name="fc" type="ST UnsignedIntHex" use="optional"/>
726     <xsd:attribute name="i" type="xsd:boolean" use="optional" default="false"/>
727     <xsd:attribute name="un" type="xsd:boolean" use="optional" default="false"/>
728     <xsd:attribute name="st" type="xsd:boolean" use="optional" default="false"/>
729     <xsd:attribute name="b" type="xsd:boolean" use="optional" default="false"/>
730 </xsd:complexType>
731 <xsd:complexType name="CT_Number">
732     <xsd:sequence>
733         <xsd:element name="tpls" minOccurs="0" maxOccurs="unbounded" type="CT_Tuples"/>
734         <xsd:element name="x" minOccurs="0" maxOccurs="unbounded" type="CT_X"/>
735     </xsd:sequence>
736     <xsd:attribute name="v" use="required" type="xsd:double"/>
737     <xsd:attribute name="u" type="xsd:boolean"/>
738     <xsd:attribute name="f" type="xsd:boolean"/>
739     <xsd:attribute name="c" type="s:ST_Xstring"/>
740     <xsd:attribute name="cp" type="xsd:unsignedInt"/>
741     <xsd:attribute name="in" type="xsd:unsignedInt" use="optional"/>
742     <xsd:attribute name="bc" type="ST UnsignedIntHex" use="optional"/>
743     <xsd:attribute name="fc" type="ST UnsignedIntHex" use="optional"/>
744     <xsd:attribute name="i" type="xsd:boolean" use="optional" default="false"/>
745     <xsd:attribute name="un" type="xsd:boolean" use="optional" default="false"/>
746     <xsd:attribute name="st" type="xsd:boolean" use="optional" default="false"/>
747     <xsd:attribute name="b" type="xsd:boolean" use="optional" default="false"/>
748 </xsd:complexType>
749 <xsd:complexType name="CT_Boolean">
750     <xsd:sequence>
751         <xsd:element name="x" minOccurs="0" maxOccurs="unbounded" type="CT_X"/>
752     </xsd:sequence>
753     <xsd:attribute name="v" use="required" type="xsd:boolean"/>
754     <xsd:attribute name="u" type="xsd:boolean"/>
755     <xsd:attribute name="f" type="xsd:boolean"/>
756     <xsd:attribute name="c" type="s:ST_Xstring"/>
757     <xsd:attribute name="cp" type="xsd:unsignedInt"/>
758 </xsd:complexType>
759 <xsd:complexType name="CT_Error">
760     <xsd:sequence>
761         <xsd:element name="tpls" minOccurs="0" type="CT_Tuples"/>
762         <xsd:element name="x" minOccurs="0" maxOccurs="unbounded" type="CT_X"/>
763     </xsd:sequence>
764     <xsd:attribute name="v" use="required" type="s:ST_Xstring"/>
765     <xsd:attribute name="u" type="xsd:boolean"/>
766     <xsd:attribute name="f" type="xsd:boolean"/>
767     <xsd:attribute name="c" type="s:ST_Xstring"/>
768     <xsd:attribute name="cp" type="xsd:unsignedInt"/>
769     <xsd:attribute name="in" type="xsd:unsignedInt" use="optional"/>
770     <xsd:attribute name="bc" type="ST UnsignedIntHex" use="optional"/>

```



```

771 <xsd:attribute name="fc" type="ST UnsignedIntHex" use="optional"/>
772 <xsd:attribute name="i" type="xsd:boolean" use="optional" default="false"/>
773 <xsd:attribute name="un" type="xsd:boolean" use="optional" default="false"/>
774 <xsd:attribute name="st" type="xsd:boolean" use="optional" default="false"/>
775 <xsd:attribute name="b" type="xsd:boolean" use="optional" default="false"/>
776 </xsd:complexType>
777 <xsd:complexType name="CT_String">
778   <xsd:sequence>
779     <xsd:element name="tpls" minOccurs="0" maxOccurs="unbounded" type="CT_Tuples"/>
780     <xsd:element name="x" minOccurs="0" maxOccurs="unbounded" type="CT_X"/>
781   </xsd:sequence>
782   <xsd:attribute name="v" use="required" type="s:ST Xstring"/>
783   <xsd:attribute name="u" type="xsd:boolean"/>
784   <xsd:attribute name="f" type="xsd:boolean"/>
785   <xsd:attribute name="c" type="s:ST Xstring"/>
786   <xsd:attribute name="cp" type="xsd:unsignedInt"/>
787   <xsd:attribute name="in" type="xsd:unsignedInt" use="optional"/>
788   <xsd:attribute name="bc" type="ST UnsignedIntHex" use="optional"/>
789   <xsd:attribute name="fc" type="ST UnsignedIntHex" use="optional"/>
790   <xsd:attribute name="i" type="xsd:boolean" use="optional" default="false"/>
791   <xsd:attribute name="un" type="xsd:boolean" use="optional" default="false"/>
792   <xsd:attribute name="st" type="xsd:boolean" use="optional" default="false"/>
793   <xsd:attribute name="b" type="xsd:boolean" use="optional" default="false"/>
794 </xsd:complexType>
795 <xsd:complexType name="CT_DateTime">
796   <xsd:sequence>
797     <xsd:element name="x" minOccurs="0" maxOccurs="unbounded" type="CT_X"/>
798   </xsd:sequence>
799   <xsd:attribute name="v" use="required" type="xsd:dateTime"/>
800   <xsd:attribute name="u" type="xsd:boolean"/>
801   <xsd:attribute name="f" type="xsd:boolean"/>
802   <xsd:attribute name="c" type="s:ST Xstring"/>
803   <xsd:attribute name="cp" type="xsd:unsignedInt"/>
804 </xsd:complexType>
805 <xsd:complexType name="CT_FieldGroup">
806   <xsd:sequence>
807     <xsd:element name="rangePr" minOccurs="0" type="CT_RangePr"/>
808     <xsd:element name="discretePr" minOccurs="0" type="CT_DiscretePr"/>
809     <xsd:element name="groupItems" minOccurs="0" type="CT_GroupItems"/>
810   </xsd:sequence>
811   <xsd:attribute name="par" type="xsd:unsignedInt" use="optional"/>
812   <xsd:attribute name="base" type="xsd:unsignedInt" use="optional"/>
813 </xsd:complexType>
814 <xsd:complexType name="CT_RangePr">
815   <xsd:attribute name="autoStart" type="xsd:boolean" default="true"/>
816   <xsd:attribute name="autoEnd" type="xsd:boolean" default="true"/>
817   <xsd:attribute name="groupBy" type="ST GroupBy" default="range"/>
818   <xsd:attribute name="startNum" type="xsd:double"/>
819   <xsd:attribute name="endNum" type="xsd:double"/>
820   <xsd:attribute name="startDate" type="xsd:dateTime"/>
821   <xsd:attribute name="endDate" type="xsd:dateTime"/>
822   <xsd:attribute name="groupInterval" type="xsd:double" default="1"/>
823 </xsd:complexType>

```

```

824 <xsd:simpleType name="ST_GroupBy">
825   <xsd:restriction base="xsd:string">
826     <xsd:enumeration value="range"/>
827     <xsd:enumeration value="seconds"/>
828     <xsd:enumeration value="minutes"/>
829     <xsd:enumeration value="hours"/>
830     <xsd:enumeration value="days"/>
831     <xsd:enumeration value="months"/>
832     <xsd:enumeration value="quarters"/>
833     <xsd:enumeration value="years"/>
834   </xsd:restriction>
835 </xsd:simpleType>
836 <xsd:complexType name="CT_DiscretePr">
837   <xsd:sequence>
838     <xsd:element name="x" maxOccurs="unbounded" type="CT_Index"/>
839   </xsd:sequence>
840   <xsd:attribute name="count" type="xsd:unsignedInt"/>
841 </xsd:complexType>
842 <xsd:complexType name="CT_GroupItems">
843   <xsd:choice maxOccurs="unbounded">
844     <xsd:element name="m" type="CT_Missing"/>
845     <xsd:element name="n" type="CT_Number"/>
846     <xsd:element name="b" type="CT_Boolean"/>
847     <xsd:element name="e" type="CT_Error"/>
848     <xsd:element name="s" type="CT_String"/>
849     <xsd:element name="d" type="CT_DateTime"/>
850   </xsd:choice>
851   <xsd:attribute name="count" type="xsd:unsignedInt"/>
852 </xsd:complexType>
853 <xsd:complexType name="CT_PivotCacheRecords">
854   <xsd:sequence>
855     <xsd:element name="r" minOccurs="0" maxOccurs="unbounded" type="CT_Record"/>
856     <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>
857   </xsd:sequence>
858   <xsd:attribute name="count" type="xsd:unsignedInt"/>
859 </xsd:complexType>
860 <xsd:complexType name="CT_Record">
861   <xsd:choice maxOccurs="unbounded">
862     <xsd:element name="m" type="CT_Missing"/>
863     <xsd:element name="n" type="CT_Number"/>
864     <xsd:element name="b" type="CT_Boolean"/>
865     <xsd:element name="e" type="CT_Error"/>
866     <xsd:element name="s" type="CT_String"/>
867     <xsd:element name="d" type="CT_DateTime"/>
868     <xsd:element name="x" type="CT_Index"/>
869   </xsd:choice>
870 </xsd:complexType>
871 <xsd:complexType name="CT_PCDKPIs">
872   <xsd:sequence>
873     <xsd:element name="kpi" minOccurs="0" maxOccurs="unbounded" type="CT_PCDKPI"/>
874   </xsd:sequence>
875   <xsd:attribute name="count" type="xsd:unsignedInt"/>
876 </xsd:complexType>

```



```

877 <xsd:complexType name="CT_PCDKPI">
878   <xsd:attribute name="uniqueName" use="required" type="s:ST Xstring"/>
879   <xsd:attribute name="caption" use="optional" type="s:ST Xstring"/>
880   <xsd:attribute name="displayFolder" type="s:ST Xstring"/>
881   <xsd:attribute name="measureGroup" type="s:ST Xstring"/>
882   <xsd:attribute name="parent" type="s:ST Xstring"/>
883   <xsd:attribute name="value" use="required" type="s:ST Xstring"/>
884   <xsd:attribute name="goal" type="s:ST Xstring"/>
885   <xsd:attribute name="status" type="s:ST Xstring"/>
886   <xsd:attribute name="trend" type="s:ST Xstring"/>
887   <xsd:attribute name="weight" type="s:ST Xstring"/>
888   <xsd:attribute name="time" type="s:ST Xstring"/>
889 </xsd:complexType>
890 <xsd:complexType name="CT_CacheHierarchies">
891   <xsd:sequence>
892     <xsd:element name="cacheHierarchy" minOccurs="0" maxOccurs="unbounded"
893       type="CT_CacheHierarchy"/>
894   </xsd:sequence>
895   <xsd:attribute name="count" type="xsd:unsignedInt"/>
896 </xsd:complexType>
897 <xsd:complexType name="CT_CacheHierarchy">
898   <xsd:sequence>
899     <xsd:element name="fieldsUsage" minOccurs="0" type="CT_FieldsUsage"/>
900     <xsd:element name="groupLevels" minOccurs="0" type="CT_GroupLevels"/>
901     <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>
902   </xsd:sequence>
903   <xsd:attribute name="uniqueName" use="required" type="s:ST Xstring"/>
904   <xsd:attribute name="caption" use="optional" type="s:ST Xstring"/>
905   <xsd:attribute name="measure" type="xsd:boolean" default="false"/>
906   <xsd:attribute name="set" type="xsd:boolean" default="false"/>
907   <xsd:attribute name="parentSet" type="xsd:unsignedInt" use="optional"/>
908   <xsd:attribute name="iconSet" type="xsd:int" default="0"/>
909   <xsd:attribute name="attribute" type="xsd:boolean" default="false"/>
910   <xsd:attribute name="time" type="xsd:boolean" default="false"/>
911   <xsd:attribute name="keyAttribute" type="xsd:boolean" default="false"/>
912   <xsd:attribute name="defaultMemberUniqueName" type="s:ST Xstring"/>
913   <xsd:attribute name="allUniqueName" type="s:ST Xstring"/>
914   <xsd:attribute name="allCaption" type="s:ST Xstring"/>
915   <xsd:attribute name="dimensionUniqueName" type="s:ST Xstring"/>
916   <xsd:attribute name="displayFolder" type="s:ST Xstring"/>
917   <xsd:attribute name="measureGroup" type="s:ST Xstring"/>
918   <xsd:attribute name="measures" type="xsd:boolean" default="false"/>
919   <xsd:attribute name="count" use="required" type="xsd:unsignedInt"/>
920   <xsd:attribute name="oneField" type="xsd:boolean" default="false"/>
921   <xsd:attribute name="memberValueDatatype" use="optional" type="xsd:unsignedShort"/>
922   <xsd:attribute name="unbalanced" use="optional" type="xsd:boolean"/>
923   <xsd:attribute name="unbalancedGroup" use="optional" type="xsd:boolean"/>
924   <xsd:attribute name="hidden" type="xsd:boolean" default="false"/>
925 </xsd:complexType>
926 <xsd:complexType name="CT_FieldsUsage">
927   <xsd:sequence>
928     <xsd:element name="fieldUsage" minOccurs="0" maxOccurs="unbounded" type="CT_FieldUsage"/>
929   </xsd:sequence>

```

```

930     <xsd:attribute name="count" type="xsd:unsignedInt"/>
931 </xsd:complexType>
932 <xsd:complexType name="CT_FieldUsage">
933     <xsd:attribute name="x" use="required" type="xsd:int"/>
934 </xsd:complexType>
935 <xsd:complexType name="CT_GroupLevels">
936     <xsd:sequence>
937         <xsd:element name="groupLevel" maxOccurs="unbounded" type="CT_GroupLevel"/>
938     </xsd:sequence>
939     <xsd:attribute name="count" type="xsd:unsignedInt"/>
940 </xsd:complexType>
941 <xsd:complexType name="CT_GroupLevel">
942     <xsd:sequence>
943         <xsd:element name="groups" minOccurs="0" type="CT_Groups"/>
944         <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>
945     </xsd:sequence>
946     <xsd:attribute name="uniqueName" use="required" type="s:ST_Xstring"/>
947     <xsd:attribute name="caption" use="required" type="s:ST_Xstring"/>
948     <xsd:attribute name="user" type="xsd:boolean" default="false"/>
949     <xsd:attribute name="customRollUp" type="xsd:boolean" default="false"/>
950 </xsd:complexType>
951 <xsd:complexType name="CT_Groups">
952     <xsd:sequence>
953         <xsd:element name="group" maxOccurs="unbounded" type="CT_LevelGroup"/>
954     </xsd:sequence>
955     <xsd:attribute name="count" type="xsd:unsignedInt"/>
956 </xsd:complexType>
957 <xsd:complexType name="CT_LevelGroup">
958     <xsd:sequence>
959         <xsd:element name="groupMembers" type="CT_GroupMembers"/>
960     </xsd:sequence>
961     <xsd:attribute name="name" use="required" type="s:ST_Xstring"/>
962     <xsd:attribute name="uniqueName" use="required" type="s:ST_Xstring"/>
963     <xsd:attribute name="caption" use="required" type="s:ST_Xstring"/>
964     <xsd:attribute name="uniqueParent" type="s:ST_Xstring"/>
965     <xsd:attribute name="id" type="xsd:int"/>
966 </xsd:complexType>
967 <xsd:complexType name="CT_GroupMembers">
968     <xsd:sequence>
969         <xsd:element name="groupMember" maxOccurs="unbounded" type="CT_GroupMember"/>
970     </xsd:sequence>
971     <xsd:attribute name="count" type="xsd:unsignedInt"/>
972 </xsd:complexType>
973 <xsd:complexType name="CT_GroupMember">
974     <xsd:attribute name="uniqueName" use="required" type="s:ST_Xstring"/>
975     <xsd:attribute name="group" type="xsd:boolean" default="false"/>
976 </xsd:complexType>
977 <xsd:complexType name="CT_TupleCache">
978     <xsd:sequence>
979         <xsd:element name="entries" minOccurs="0" type="CT_PCDSDTCEntries"/>
980         <xsd:element name="sets" minOccurs="0" type="CT_Sets"/>
981         <xsd:element name="queryCache" minOccurs="0" type="CT_QueryCache"/>
982         <xsd:element name="serverFormats" minOccurs="0" maxOccurs="1" type="CT_ServerFormats"/>

```

```

983     <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>
984   </xsd:sequence>
985 </xsd:complexType>
986 <xsd:complexType name="CT_ServerFormat">
987   <xsd:attribute name="culture" use="optional" type="s:ST_Xstring"/>
988   <xsd:attribute name="format" use="optional" type="s:ST_Xstring"/>
989 </xsd:complexType>
990 <xsd:complexType name="CT_ServerFormats">
991   <xsd:sequence>
992     <xsd:element name="serverFormat" type="CT_ServerFormat" minOccurs="0"
993       maxOccurs="unbounded"/>
994   </xsd:sequence>
995   <xsd:attribute name="count" type="xsd:unsignedInt"/>
996 </xsd:complexType>
997 <xsd:complexType name="CT_PCSDTCEntries">
998   <xsd:choice maxOccurs="unbounded">
999     <xsd:element name="m" type="CT_Missing"/>
1000    <xsd:element name="n" type="CT_Number"/>
1001    <xsd:element name="e" type="CT_Error"/>
1002    <xsd:element name="s" type="CT_String"/>
1003  </xsd:choice>
1004  <xsd:attribute name="count" type="xsd:unsignedInt"/>
1005 </xsd:complexType>
1006 <xsd:complexType name="CT_Tuples">
1007   <xsd:sequence>
1008     <xsd:element name="tpl" type="CT_Tuple" minOccurs="1" maxOccurs="unbounded"/>
1009   </xsd:sequence>
1010   <xsd:attribute name="c" type="xsd:unsignedInt" use="optional"/>
1011 </xsd:complexType>
1012 <xsd:complexType name="CT_Tuple">
1013   <xsd:attribute name="fld" type="xsd:unsignedInt"/>
1014   <xsd:attribute name="hier" type="xsd:unsignedInt"/>
1015   <xsd:attribute name="item" type="xsd:unsignedInt" use="required"/>
1016 </xsd:complexType>
1017 <xsd:complexType name="CT_Sets">
1018   <xsd:sequence>
1019     <xsd:element name="set" maxOccurs="unbounded" type="CT_Set"/>
1020   </xsd:sequence>
1021   <xsd:attribute name="count" type="xsd:unsignedInt"/>
1022 </xsd:complexType>
1023 <xsd:complexType name="CT_Set">
1024   <xsd:sequence>
1025     <xsd:element name="tpls" minOccurs="0" maxOccurs="unbounded" type="CT_Tuples"/>
1026     <xsd:element name="sortByTuple" minOccurs="0" type="CT_Tuples"/>
1027   </xsd:sequence>
1028   <xsd:attribute name="count" type="xsd:unsignedInt"/>
1029   <xsd:attribute name="maxRank" use="required" type="xsd:int"/>
1030   <xsd:attribute name="setDefinition" use="required" type="s:ST_Xstring"/>
1031   <xsd:attribute name="sortType" type="ST_SortType" default="none"/>
1032   <xsd:attribute name="queryFailed" type="xsd:boolean" default="false"/>
1033 </xsd:complexType>
1034 <xsd:simpleType name="ST_SortType">
1035   <xsd:restriction base="xsd:string">

```

```

1036     <xsd:enumeration value="none"/>
1037     <xsd:enumeration value="ascending"/>
1038     <xsd:enumeration value="descending"/>
1039     <xsd:enumeration value="ascendingAlpha"/>
1040     <xsd:enumeration value="descendingAlpha"/>
1041     <xsd:enumeration value="ascendingNatural"/>
1042     <xsd:enumeration value="descendingNatural"/>
1043   </xsd:restriction>
1044 </xsd:simpleType>
1045 <xsd:complexType name="CT_QueryCache">
1046   <xsd:sequence>
1047     <xsd:element name="query" maxOccurs="unbounded" type="CT_Query"/>
1048   </xsd:sequence>
1049   <xsd:attribute name="count" type="xsd:unsignedInt"/>
1050 </xsd:complexType>
1051 <xsd:complexType name="CT_Query">
1052   <xsd:sequence>
1053     <xsd:element name="tpls" minOccurs="0" type="CT_Tuples"/>
1054   </xsd:sequence>
1055   <xsd:attribute name="mdx" use="required" type="s:ST_Xstring"/>
1056 </xsd:complexType>
1057 <xsd:complexType name="CT_CalculatedItems">
1058   <xsd:sequence>
1059     <xsd:element name="calculatedItem" maxOccurs="unbounded" type="CT_CalculatedItem"/>
1060   </xsd:sequence>
1061   <xsd:attribute name="count" type="xsd:unsignedInt"/>
1062 </xsd:complexType>
1063 <xsd:complexType name="CT_CalculatedItem">
1064   <xsd:sequence>
1065     <xsd:element name="pivotArea" type="CT_PivotArea"/>
1066     <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>
1067   </xsd:sequence>
1068   <xsd:attribute name="field" type="xsd:unsignedInt" use="optional"/>
1069   <xsd:attribute name="formula" type="s:ST_Xstring"/>
1070 </xsd:complexType>
1071 <xsd:complexType name="CT_CalculatedMembers">
1072   <xsd:sequence>
1073     <xsd:element name="calculatedMember" maxOccurs="unbounded" type="CT_CalculatedMember"/>
1074   </xsd:sequence>
1075   <xsd:attribute name="count" type="xsd:unsignedInt"/>
1076 </xsd:complexType>
1077 <xsd:complexType name="CT_CalculatedMember">
1078   <xsd:sequence minOccurs="0">
1079     <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>
1080   </xsd:sequence>
1081   <xsd:attribute name="name" use="required" type="s:ST_Xstring"/>
1082   <xsd:attribute name="mdx" use="required" type="s:ST_Xstring"/>
1083   <xsd:attribute name="memberName" type="s:ST_Xstring"/>
1084   <xsd:attribute name="hierarchy" type="s:ST_Xstring"/>
1085   <xsd:attribute name="parent" type="s:ST_Xstring"/>
1086   <xsd:attribute name="solveOrder" type="xsd:int" default="0"/>
1087   <xsd:attribute name="set" type="xsd:boolean" default="false"/>
1088 </xsd:complexType>

```

```

1089 <xsd:complexType name="CT_pivotTableDefinition">
1090   <xsd:sequence>
1091     <xsd:element name="location" type="CT_Location"/>
1092     <xsd:element name="pivotFields" type="CT_PivotFields" minOccurs="0"/>
1093     <xsd:element name="rowFields" type="CT_RowFields" minOccurs="0"/>
1094     <xsd:element name="rowItems" type="CT_rowItems" minOccurs="0"/>
1095     <xsd:element name="colFields" type="CT_ColFields" minOccurs="0"/>
1096     <xsd:element name="colItems" type="CT_colItems" minOccurs="0"/>
1097     <xsd:element name="pageFields" type="CT_PageFields" minOccurs="0"/>
1098     <xsd:element name="dataFields" type="CT_DataFields" minOccurs="0"/>
1099     <xsd:element name="formats" type="CT_Formats" minOccurs="0"/>
1100     <xsd:element name="conditionalFormats" type="CT_ConditionalFormats" minOccurs="0"/>
1101     <xsd:element name="chartFormats" type="CT_ChartFormats" minOccurs="0"/>
1102     <xsd:element name="pivotHierarchies" type="CT_PivotHierarchies" minOccurs="0"/>
1103     <xsd:element name="pivotTableStyleInfo" minOccurs="0" maxOccurs="1"
1104       type="CT_PivotTableStyle"/>
1105     <xsd:element name="filters" minOccurs="0" maxOccurs="1" type="CT_PivotFilters"/>
1106     <xsd:element name="rowHierarchiesUsage" type="CT_RowHierarchiesUsage" minOccurs="0"
1107       maxOccurs="1"/>
1108     <xsd:element name="colHierarchiesUsage" type="CT_ColHierarchiesUsage" minOccurs="0"
1109       maxOccurs="1"/>
1110     <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>
1111   </xsd:sequence>
1112   <xsd:attribute name="name" use="required" type="s:ST_Xstring"/>
1113   <xsd:attribute name="cacheId" use="required" type="xsd:unsignedInt"/>
1114   <xsd:attribute name="dataOnRows" type="xsd:boolean" default="false"/>
1115   <xsd:attribute name="dataPosition" type="xsd:unsignedInt" use="optional"/>
1116   <xsd:attributeGroup ref="AG_AutoFormat"/>
1117   <xsd:attribute name="dataCaption" use="required" type="s:ST_Xstring"/>
1118   <xsd:attribute name="grandTotalCaption" type="s:ST_Xstring"/>
1119   <xsd:attribute name="errorCaption" type="s:ST_Xstring"/>
1120   <xsd:attribute name="showError" type="xsd:boolean" default="false"/>
1121   <xsd:attribute name="missingCaption" type="s:ST_Xstring"/>
1122   <xsd:attribute name="showMissing" type="xsd:boolean" default="true"/>
1123   <xsd:attribute name="pageStyle" type="s:ST_Xstring"/>
1124   <xsd:attribute name="pivotTableStyle" type="s:ST_Xstring"/>
1125   <xsd:attribute name="vacatedStyle" type="s:ST_Xstring"/>
1126   <xsd:attribute name="tag" type="s:ST_Xstring"/>
1127   <xsd:attribute name="updatedVersion" type="xsd:unsignedByte" default="0"/>
1128   <xsd:attribute name="minRefreshableVersion" type="xsd:unsignedByte" default="0"/>
1129   <xsd:attribute name="asteriskTotals" type="xsd:boolean" default="false"/>
1130   <xsd:attribute name="showItems" type="xsd:boolean" default="true"/>
1131   <xsd:attribute name="editData" type="xsd:boolean" default="false"/>
1132   <xsd:attribute name="disableFieldList" type="xsd:boolean" default="false"/>
1133   <xsd:attribute name="showCalcMbrs" type="xsd:boolean" default="true"/>
1134   <xsd:attribute name="visualTotals" type="xsd:boolean" default="true"/>
1135   <xsd:attribute name="showMultipleLabel" type="xsd:boolean" default="true"/>
1136   <xsd:attribute name="showDataDropDown" type="xsd:boolean" default="true"/>
1137   <xsd:attribute name="showDrill" type="xsd:boolean" default="true"/>
1138   <xsd:attribute name="printDrill" type="xsd:boolean" default="false"/>
1139   <xsd:attribute name="showMemberPropertyTips" type="xsd:boolean" default="true"/>
1140   <xsd:attribute name="showDataTips" type="xsd:boolean" default="true"/>
1141   <xsd:attribute name="enableWizard" type="xsd:boolean" default="true"/>

```

```

1142 <xsd:attribute name="enableDrill" type="xsd:boolean" default="true"/>
1143 <xsd:attribute name="enableFieldProperties" type="xsd:boolean" default="true"/>
1144 <xsd:attribute name="preserveFormatting" type="xsd:boolean" default="true"/>
1145 <xsd:attribute name="useAutoFormatting" type="xsd:boolean" default="false"/>
1146 <xsd:attribute name="pageWrap" type="xsd:unsignedInt" default="0"/>
1147 <xsd:attribute name="pageOverThenDown" type="xsd:boolean" default="false"/>
1148 <xsd:attribute name="subtotalHiddenItems" type="xsd:boolean" default="false"/>
1149 <xsd:attribute name="rowGrandTotals" type="xsd:boolean" default="true"/>
1150 <xsd:attribute name="colGrandTotals" type="xsd:boolean" default="true"/>
1151 <xsd:attribute name="fieldPrintTitles" type="xsd:boolean" default="false"/>
1152 <xsd:attribute name="itemPrintTitles" type="xsd:boolean" default="false"/>
1153 <xsd:attribute name="mergeItem" type="xsd:boolean" default="false"/>
1154 <xsd:attribute name="showDropZones" type="xsd:boolean" default="true"/>
1155 <xsd:attribute name="createdVersion" type="xsd:unsignedByte" default="0"/>
1156 <xsd:attribute name="indent" type="xsd:unsignedInt" default="1"/>
1157 <xsd:attribute name="showEmptyRow" type="xsd:boolean" default="false"/>
1158 <xsd:attribute name="showEmptyCol" type="xsd:boolean" default="false"/>
1159 <xsd:attribute name="showHeaders" type="xsd:boolean" default="true"/>
1160 <xsd:attribute name="compact" type="xsd:boolean" default="true"/>
1161 <xsd:attribute name="outline" type="xsd:boolean" default="false"/>
1162 <xsd:attribute name="outlineData" type="xsd:boolean" default="false"/>
1163 <xsd:attribute name="compactData" type="xsd:boolean" default="true"/>
1164 <xsd:attribute name="published" type="xsd:boolean" default="false"/>
1165 <xsd:attribute name="gridDropZones" type="xsd:boolean" default="false"/>
1166 <xsd:attribute name="immersive" type="xsd:boolean" default="true"/>
1167 <xsd:attribute name="multipleFieldFilters" type="xsd:boolean" default="true"/>
1168 <xsd:attribute name="chartFormat" type="xsd:unsignedInt" default="0"/>
1169 <xsd:attribute name="rowHeaderCaption" type="s:ST Xstring"/>
1170 <xsd:attribute name="colHeaderCaption" type="s:ST Xstring"/>
1171 <xsd:attribute name="fieldListSortAscending" type="xsd:boolean" default="false"/>
1172 <xsd:attribute name="mdxSubqueries" type="xsd:boolean" default="false"/>
1173 <xsd:attribute name="customListSort" type="xsd:boolean" use="optional" default="true"/>
1174 </xsd:complexType>
1175 <xsd:complexType name="CT_Location">
1176 <xsd:attribute name="ref" use="required" type="ST Ref"/>
1177 <xsd:attribute name="firstHeaderRow" use="required" type="xsd:unsignedInt"/>
1178 <xsd:attribute name="firstDataRow" use="required" type="xsd:unsignedInt"/>
1179 <xsd:attribute name="firstDataCol" use="required" type="xsd:unsignedInt"/>
1180 <xsd:attribute name="rowPageCount" type="xsd:unsignedInt" default="0"/>
1181 <xsd:attribute name="colPageCount" type="xsd:unsignedInt" default="0"/>
1182 </xsd:complexType>
1183 <xsd:complexType name="CT_PivotFields">
1184 <xsd:sequence>
1185 <xsd:element name="pivotField" maxOccurs="unbounded" type="CT_PivotField"/>
1186 </xsd:sequence>
1187 <xsd:attribute name="count" type="xsd:unsignedInt"/>
1188 </xsd:complexType>
1189 <xsd:complexType name="CT_PivotField">
1190 <xsd:sequence>
1191 <xsd:element name="items" minOccurs="0" type="CT_Items"/>
1192 <xsd:element name="autoSortScope" minOccurs="0" type="CT_AutoSortScope"/>
1193 <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>
1194 </xsd:sequence>

```



```

1195 <xsd:attribute name="name" type="s:ST Xstring"/>
1196 <xsd:attribute name="axis" use="optional" type="ST Axis"/>
1197 <xsd:attribute name="dataField" type="xsd:boolean" default="false"/>
1198 <xsd:attribute name="subtotalCaption" type="s:ST Xstring"/>
1199 <xsd:attribute name="showDropDowns" type="xsd:boolean" default="true"/>
1200 <xsd:attribute name="hiddenLevel" type="xsd:boolean" default="false"/>
1201 <xsd:attribute name="uniqueMemberProperty" type="s:ST Xstring"/>
1202 <xsd:attribute name="compact" type="xsd:boolean" default="true"/>
1203 <xsd:attribute name="allDrilled" type="xsd:boolean" default="false"/>
1204 <xsd:attribute name="numFmtId" type="ST NumFmtId" use="optional"/>
1205 <xsd:attribute name="outline" type="xsd:boolean" default="true"/>
1206 <xsd:attribute name="subtotalTop" type="xsd:boolean" default="true"/>
1207 <xsd:attribute name="dragToRow" type="xsd:boolean" default="true"/>
1208 <xsd:attribute name="dragToCol" type="xsd:boolean" default="true"/>
1209 <xsd:attribute name="multipleItemSelectionAllowed" type="xsd:boolean" default="false"/>
1210 <xsd:attribute name="dragToPage" type="xsd:boolean" default="true"/>
1211 <xsd:attribute name="dragToData" type="xsd:boolean" default="true"/>
1212 <xsd:attribute name="dragOff" type="xsd:boolean" default="true"/>
1213 <xsd:attribute name="showAll" type="xsd:boolean" default="true"/>
1214 <xsd:attribute name="insertBlankRow" type="xsd:boolean" default="false"/>
1215 <xsd:attribute name="serverField" type="xsd:boolean" default="false"/>
1216 <xsd:attribute name="insertPageBreak" type="xsd:boolean" default="false"/>
1217 <xsd:attribute name="autoShow" type="xsd:boolean" default="false"/>
1218 <xsd:attribute name="topAutoShow" type="xsd:boolean" default="true"/>
1219 <xsd:attribute name="hideNewItem" type="xsd:boolean" default="false"/>
1220 <xsd:attribute name="measureFilter" type="xsd:boolean" default="false"/>
1221 <xsd:attribute name="includeNewItemInFilter" type="xsd:boolean" default="false"/>
1222 <xsd:attribute name="itemPageCount" type="xsd:unsignedInt" default="10"/>
1223 <xsd:attribute name="sortType" type="ST FieldSortType" default="manual"/>
1224 <xsd:attribute name="dataSourceSort" type="xsd:boolean" use="optional"/>
1225 <xsd:attribute name="nonAutoSortDefault" type="xsd:boolean" default="false"/>
1226 <xsd:attribute name="rankBy" type="xsd:unsignedInt" use="optional"/>
1227 <xsd:attribute name="defaultSubtotal" type="xsd:boolean" default="true"/>
1228 <xsd:attribute name="sumSubtotal" type="xsd:boolean" default="false"/>
1229 <xsd:attribute name="countASubtotal" type="xsd:boolean" default="false"/>
1230 <xsd:attribute name="avgSubtotal" type="xsd:boolean" default="false"/>
1231 <xsd:attribute name="maxSubtotal" type="xsd:boolean" default="false"/>
1232 <xsd:attribute name="minSubtotal" type="xsd:boolean" default="false"/>
1233 <xsd:attribute name="productSubtotal" type="xsd:boolean" default="false"/>
1234 <xsd:attribute name="countSubtotal" type="xsd:boolean" default="false"/>
1235 <xsd:attribute name="stdDevSubtotal" type="xsd:boolean" default="false"/>
1236 <xsd:attribute name="stdDevPSubtotal" type="xsd:boolean" default="false"/>
1237 <xsd:attribute name="varSubtotal" type="xsd:boolean" default="false"/>
1238 <xsd:attribute name="varPSubtotal" type="xsd:boolean" default="false"/>
1239 <xsd:attribute name="showPropCell" type="xsd:boolean" use="optional" default="false"/>
1240 <xsd:attribute name="showPropTip" type="xsd:boolean" use="optional" default="false"/>
1241 <xsd:attribute name="showPropAsCaption" type="xsd:boolean" use="optional" default="false"/>
1242 <xsd:attribute name="defaultAttributeDrillState" type="xsd:boolean" use="optional"
1243     default="false"/>
1244 </xsd:complexType>
1245 <xsd:complexType name="CT_AutoSortScope">
1246     <xsd:sequence>
1247         <xsd:element name="pivotArea" type="CT PivotArea"/>

```

```

1248     </xsd:sequence>
1249 </xsd:complexType>
1250 <xsd:complexType name="CT_Items">
1251     <xsd:sequence>
1252         <xsd:element name="item" maxOccurs="unbounded" type="CT_Item"/>
1253     </xsd:sequence>
1254     <xsd:attribute name="count" type="xsd:unsignedInt"/>
1255 </xsd:complexType>
1256 <xsd:complexType name="CT_Item">
1257     <xsd:attribute name="n" type="s:ST_Xstring"/>
1258     <xsd:attribute name="t" type="ST_ItemType" default="data"/>
1259     <xsd:attribute name="h" type="xsd:boolean" default="false"/>
1260     <xsd:attribute name="s" type="xsd:boolean" default="false"/>
1261     <xsd:attribute name="sd" type="xsd:boolean" default="true"/>
1262     <xsd:attribute name="f" type="xsd:boolean" default="false"/>
1263     <xsd:attribute name="m" type="xsd:boolean" default="false"/>
1264     <xsd:attribute name="c" type="xsd:boolean" default="false"/>
1265     <xsd:attribute name="x" type="xsd:unsignedInt" use="optional"/>
1266     <xsd:attribute name="d" type="xsd:boolean" default="false"/>
1267     <xsd:attribute name="e" type="xsd:boolean" default="true"/>
1268 </xsd:complexType>
1269 <xsd:complexType name="CT_PageFields">
1270     <xsd:sequence>
1271         <xsd:element name="pageField" maxOccurs="unbounded" type="CT_PageField"/>
1272     </xsd:sequence>
1273     <xsd:attribute name="count" type="xsd:unsignedInt"/>
1274 </xsd:complexType>
1275 <xsd:complexType name="CT_PageField">
1276     <xsd:sequence minOccurs="0">
1277         <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>
1278     </xsd:sequence>
1279     <xsd:attribute name="fld" use="required" type="xsd:int"/>
1280     <xsd:attribute name="item" use="optional" type="xsd:unsignedInt"/>
1281     <xsd:attribute name="hier" type="xsd:int"/>
1282     <xsd:attribute name="name" type="s:ST_Xstring"/>
1283     <xsd:attribute name="cap" type="s:ST_Xstring"/>
1284 </xsd:complexType>
1285 <xsd:complexType name="CT_DataFields">
1286     <xsd:sequence>
1287         <xsd:element name="dataField" maxOccurs="unbounded" type="CT_DataField"/>
1288     </xsd:sequence>
1289     <xsd:attribute name="count" type="xsd:unsignedInt"/>
1290 </xsd:complexType>
1291 <xsd:complexType name="CT_DataField">
1292     <xsd:sequence>
1293         <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>
1294     </xsd:sequence>
1295     <xsd:attribute name="name" use="optional" type="s:ST_Xstring"/>
1296     <xsd:attribute name="fld" type="xsd:unsignedInt" use="required"/>
1297     <xsd:attribute name="subtotal" type="ST_DataConsolidateFunction" default="sum"/>
1298     <xsd:attribute name="showDataAs" type="ST_ShowDataAs" default="normal"/>
1299     <xsd:attribute name="baseField" type="xsd:int" default="-1"/>
1300     <xsd:attribute name="baseItem" type="xsd:unsignedInt" default="1048832"/>

```



```

1301     <xsd:attribute name="numFmtId" type="ST_NumFmtId" use="optional"/>
1302 </xsd:complexType>
1303 <xsd:complexType name="CT_rowItems">
1304     <xsd:sequence>
1305         <xsd:element name="i" maxOccurs="unbounded" type="CT_I"/>
1306     </xsd:sequence>
1307     <xsd:attribute name="count" type="xsd:unsignedInt"/>
1308 </xsd:complexType>
1309 <xsd:complexType name="CT_colItems">
1310     <xsd:sequence>
1311         <xsd:element name="i" maxOccurs="unbounded" type="CT_I"/>
1312     </xsd:sequence>
1313     <xsd:attribute name="count" type="xsd:unsignedInt"/>
1314 </xsd:complexType>
1315 <xsd:complexType name="CT_I">
1316     <xsd:sequence>
1317         <xsd:element name="x" minOccurs="0" maxOccurs="unbounded" type="CT_X"/>
1318     </xsd:sequence>
1319     <xsd:attribute name="t" type="ST_ItemType" default="data"/>
1320     <xsd:attribute name="r" type="xsd:unsignedInt" default="0"/>
1321     <xsd:attribute name="i" type="xsd:unsignedInt" default="0"/>
1322 </xsd:complexType>
1323 <xsd:complexType name="CT_X">
1324     <xsd:attribute name="v" type="xsd:int" default="0"/>
1325 </xsd:complexType>
1326 <xsd:complexType name="CT_RowFields">
1327     <xsd:sequence>
1328         <xsd:element name="field" maxOccurs="unbounded" type="CT_Field"/>
1329     </xsd:sequence>
1330     <xsd:attribute name="count" type="xsd:unsignedInt" default="0"/>
1331 </xsd:complexType>
1332 <xsd:complexType name="CT_ColFields">
1333     <xsd:sequence>
1334         <xsd:element name="field" maxOccurs="unbounded" type="CT_Field"/>
1335     </xsd:sequence>
1336     <xsd:attribute name="count" type="xsd:unsignedInt" default="0"/>
1337 </xsd:complexType>
1338 <xsd:complexType name="CT_Field">
1339     <xsd:attribute name="x" type="xsd:int" use="required"/>
1340 </xsd:complexType>
1341 <xsd:complexType name="CT_Formats">
1342     <xsd:sequence>
1343         <xsd:element name="format" maxOccurs="unbounded" type="CT_Format"/>
1344     </xsd:sequence>
1345     <xsd:attribute name="count" type="xsd:unsignedInt" default="0"/>
1346 </xsd:complexType>
1347 <xsd:complexType name="CT_Format">
1348     <xsd:sequence>
1349         <xsd:element name="pivotArea" type="CT_PivotArea"/>
1350         <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>
1351     </xsd:sequence>
1352     <xsd:attribute name="action" type="ST_FormatAction" default="formatting"/>
1353     <xsd:attribute name="dxfId" type="ST_DxfId" use="optional"/>

```

```

1354 </xsd:complexType>
1355 <xsd:complexType name="CT_ConditionalFormats">
1356   <xsd:sequence>
1357     <xsd:element name="conditionalFormat" maxOccurs="unbounded" type="CT_ConditionalFormat"/>
1358   </xsd:sequence>
1359   <xsd:attribute name="count" type="xsd:unsignedInt" default="0"/>
1360 </xsd:complexType>
1361 <xsd:complexType name="CT_ConditionalFormat">
1362   <xsd:sequence>
1363     <xsd:element name="pivotAreas" type="CT_PivotAreas"/>
1364     <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>
1365   </xsd:sequence>
1366   <xsd:attribute name="scope" type="ST_Scope" default="selection"/>
1367   <xsd:attribute name="type" type="ST_Type" default="none"/>
1368   <xsd:attribute name="priority" use="required" type="xsd:unsignedInt"/>
1369 </xsd:complexType>
1370 <xsd:complexType name="CT_PivotAreas">
1371   <xsd:sequence>
1372     <xsd:element name="pivotArea" minOccurs="0" maxOccurs="unbounded" type="CT_PivotArea"/>
1373   </xsd:sequence>
1374   <xsd:attribute name="count" type="xsd:unsignedInt"/>
1375 </xsd:complexType>
1376 <xsd:simpleType name="ST_Scope">
1377   <xsd:restriction base="xsd:string">
1378     <xsd:enumeration value="selection"/>
1379     <xsd:enumeration value="data"/>
1380     <xsd:enumeration value="field"/>
1381   </xsd:restriction>
1382 </xsd:simpleType>
1383 <xsd:simpleType name="ST_Type">
1384   <xsd:restriction base="xsd:string">
1385     <xsd:enumeration value="none"/>
1386     <xsd:enumeration value="all"/>
1387     <xsd:enumeration value="row"/>
1388     <xsd:enumeration value="column"/>
1389   </xsd:restriction>
1390 </xsd:simpleType>
1391 <xsd:complexType name="CT_ChartFormats">
1392   <xsd:sequence>
1393     <xsd:element name="chartFormat" maxOccurs="unbounded" type="CT_ChartFormat"/>
1394   </xsd:sequence>
1395   <xsd:attribute name="count" type="xsd:unsignedInt" default="0"/>
1396 </xsd:complexType>
1397 <xsd:complexType name="CT_ChartFormat">
1398   <xsd:sequence>
1399     <xsd:element name="pivotArea" type="CT_PivotArea"/>
1400   </xsd:sequence>
1401   <xsd:attribute name="chart" use="required" type="xsd:unsignedInt"/>
1402   <xsd:attribute name="format" use="required" type="xsd:unsignedInt"/>
1403   <xsd:attribute name="series" type="xsd:boolean" default="false"/>
1404 </xsd:complexType>
1405 <xsd:complexType name="CT_PivotHierarchies">
1406   <xsd:sequence>

```

```

1407     <xsd:element name="pivotHierarchy" maxOccurs="unbounded" type="CT_PivotHierarchy"/>
1408   </xsd:sequence>
1409   <xsd:attribute name="count" type="xsd:unsignedInt"/>
1410 </xsd:complexType>
1411 <xsd:complexType name="CT_PivotHierarchy">
1412   <xsd:sequence>
1413     <xsd:element name="mps" minOccurs="0" type="CT_MemberProperties"/>
1414     <xsd:element name="members" minOccurs="0" maxOccurs="unbounded" type="CT_Members"/>
1415     <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>
1416   </xsd:sequence>
1417   <xsd:attribute name="outline" type="xsd:boolean" default="false"/>
1418   <xsd:attribute name="multipleItemSelectionAllowed" type="xsd:boolean" default="false"/>
1419   <xsd:attribute name="subtotalTop" type="xsd:boolean" default="false"/>
1420   <xsd:attribute name="showInFieldList" type="xsd:boolean" default="true"/>
1421   <xsd:attribute name="dragToRow" type="xsd:boolean" default="true"/>
1422   <xsd:attribute name="dragToCol" type="xsd:boolean" default="true"/>
1423   <xsd:attribute name="dragToPage" type="xsd:boolean" default="true"/>
1424   <xsd:attribute name="dragToData" type="xsd:boolean" default="false"/>
1425   <xsd:attribute name="dragOff" type="xsd:boolean" default="true"/>
1426   <xsd:attribute name="includeNewItemInFilter" type="xsd:boolean" default="false"/>
1427   <xsd:attribute name="caption" type="s:ST_Xstring" use="optional"/>
1428 </xsd:complexType>
1429 <xsd:complexType name="CT_RowHierarchiesUsage">
1430   <xsd:sequence>
1431     <xsd:element name="rowHierarchyUsage" minOccurs="1" maxOccurs="unbounded"
1432       type="CT_HierarchyUsage"/>
1433   </xsd:sequence>
1434   <xsd:attribute name="count" type="xsd:unsignedInt"/>
1435 </xsd:complexType>
1436 <xsd:complexType name="CT_ColHierarchiesUsage">
1437   <xsd:sequence>
1438     <xsd:element name="colHierarchyUsage" minOccurs="1" maxOccurs="unbounded"
1439       type="CT_HierarchyUsage"/>
1440   </xsd:sequence>
1441   <xsd:attribute name="count" type="xsd:unsignedInt"/>
1442 </xsd:complexType>
1443 <xsd:complexType name="CT_HierarchyUsage">
1444   <xsd:attribute name="hierarchyUsage" type="xsd:int" use="required"/>
1445 </xsd:complexType>
1446 <xsd:complexType name="CT_MemberProperties">
1447   <xsd:sequence>
1448     <xsd:element name="mp" maxOccurs="unbounded" type="CT_MemberProperty"/>
1449   </xsd:sequence>
1450   <xsd:attribute name="count" type="xsd:unsignedInt"/>
1451 </xsd:complexType>
1452 <xsd:complexType name="CT_MemberProperty">
1453   <xsd:attribute name="name" type="s:ST_Xstring" use="optional"/>
1454   <xsd:attribute name="showCell" type="xsd:boolean" use="optional" default="false"/>
1455   <xsd:attribute name="showTip" type="xsd:boolean" use="optional" default="false"/>
1456   <xsd:attribute name="showAsCaption" type="xsd:boolean" use="optional" default="false"/>
1457   <xsd:attribute name="nameLen" type="xsd:unsignedInt" use="optional"/>
1458   <xsd:attribute name="pPos" type="xsd:unsignedInt" use="optional"/>
1459   <xsd:attribute name="pLen" type="xsd:unsignedInt" use="optional"/>

```

```

1460     <xsd:attribute name="level" type="xsd:unsignedInt" use="optional"/>
1461     <xsd:attribute name="field" use="required" type="xsd:unsignedInt"/>
1462 </xsd:complexType>
1463 <xsd:complexType name="CT_Members">
1464     <xsd:sequence>
1465         <xsd:element name="member" maxOccurs="unbounded" type="CT_Member"/>
1466     </xsd:sequence>
1467     <xsd:attribute name="count" type="xsd:unsignedInt"/>
1468     <xsd:attribute name="level" use="optional" type="xsd:unsignedInt"/>
1469 </xsd:complexType>
1470 <xsd:complexType name="CT_Member">
1471     <xsd:attribute name="name" use="required" type="s:ST_Xstring"/>
1472 </xsd:complexType>
1473 <xsd:complexType name="CT_Dimensions">
1474     <xsd:sequence>
1475         <xsd:element name="dimension" minOccurs="0" maxOccurs="unbounded"
1476             type="CT_PivotDimension"/>
1477     </xsd:sequence>
1478     <xsd:attribute name="count" type="xsd:unsignedInt"/>
1479 </xsd:complexType>
1480 <xsd:complexType name="CT_PivotDimension">
1481     <xsd:attribute name="measure" type="xsd:boolean" default="false"/>
1482     <xsd:attribute name="name" use="required" type="s:ST_Xstring"/>
1483     <xsd:attribute name="uniqueName" use="required" type="s:ST_Xstring"/>
1484     <xsd:attribute name="caption" use="required" type="s:ST_Xstring"/>
1485 </xsd:complexType>
1486 <xsd:complexType name="CT_MeasureGroups">
1487     <xsd:sequence>
1488         <xsd:element name="measureGroup" minOccurs="0" maxOccurs="unbounded"
1489             type="CT_MeasureGroup"/>
1490     </xsd:sequence>
1491     <xsd:attribute name="count" type="xsd:unsignedInt"/>
1492 </xsd:complexType>
1493 <xsd:complexType name="CT_MeasureDimensionMaps">
1494     <xsd:sequence>
1495         <xsd:element name="map" minOccurs="0" maxOccurs="unbounded"
1496             type="CT_MeasureDimensionMap"/>
1497     </xsd:sequence>
1498     <xsd:attribute name="count" type="xsd:unsignedInt"/>
1499 </xsd:complexType>
1500 <xsd:complexType name="CT_MeasureGroup">
1501     <xsd:attribute name="name" use="required" type="s:ST_Xstring"/>
1502     <xsd:attribute name="caption" use="required" type="s:ST_Xstring"/>
1503 </xsd:complexType>
1504 <xsd:complexType name="CT_MeasureDimensionMap">
1505     <xsd:attribute name="measureGroup" use="optional" type="xsd:unsignedInt"/>
1506     <xsd:attribute name="dimension" use="optional" type="xsd:unsignedInt"/>
1507 </xsd:complexType>
1508 <xsd:complexType name="CT_PivotTableStyle">
1509     <xsd:attribute name="name" type="xsd:string"/>
1510     <xsd:attribute name="showRowHeaders" type="xsd:boolean"/>
1511     <xsd:attribute name="showColHeaders" type="xsd:boolean"/>
1512     <xsd:attribute name="showRowStripes" type="xsd:boolean"/>

```

```

1513     <xsd:attribute name="showColStripes" type="xsd:boolean"/>
1514     <xsd:attribute name="showLastColumn" type="xsd:boolean" use="optional"/>
1515 </xsd:complexType>
1516 <xsd:complexType name="CT_PivotFilters">
1517     <xsd:sequence>
1518         <xsd:element name="filter" minOccurs="0" maxOccurs="unbounded" type="CT_PivotFilter"/>
1519     </xsd:sequence>
1520     <xsd:attribute name="count" type="xsd:unsignedInt" default="0"/>
1521 </xsd:complexType>
1522 <xsd:complexType name="CT_PivotFilter">
1523     <xsd:sequence>
1524         <xsd:element name="autoFilter" minOccurs="1" maxOccurs="1" type="CT_AutoFilter"/>
1525         <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>
1526     </xsd:sequence>
1527     <xsd:attribute name="fld" use="required" type="xsd:unsignedInt"/>
1528     <xsd:attribute name="mpFld" type="xsd:unsignedInt" use="optional"/>
1529     <xsd:attribute name="type" use="required" type="ST_PivotFilterType"/>
1530     <xsd:attribute name="evalOrder" use="optional" type="xsd:int" default="0"/>
1531     <xsd:attribute name="id" use="required" type="xsd:unsignedInt"/>
1532     <xsd:attribute name="iMeasureHier" use="optional" type="xsd:unsignedInt"/>
1533     <xsd:attribute name="iMeasureFld" use="optional" type="xsd:unsignedInt"/>
1534     <xsd:attribute name="name" type="s:ST_Xstring"/>
1535     <xsd:attribute name="description" type="s:ST_Xstring"/>
1536     <xsd:attribute name="stringValue1" type="s:ST_Xstring"/>
1537     <xsd:attribute name="stringValue2" type="s:ST_Xstring"/>
1538 </xsd:complexType>
1539 <xsd:simpleType name="ST_ShowDataAs">
1540     <xsd:restriction base="xsd:string">
1541         <xsd:enumeration value="normal"/>
1542         <xsd:enumeration value="difference"/>
1543         <xsd:enumeration value="percent"/>
1544         <xsd:enumeration value="percentDiff"/>
1545         <xsd:enumeration value="runTotal"/>
1546         <xsd:enumeration value="percentOfRow"/>
1547         <xsd:enumeration value="percentOfCol"/>
1548         <xsd:enumeration value="percentOfTotal"/>
1549         <xsd:enumeration value="index"/>
1550     </xsd:restriction>
1551 </xsd:simpleType>
1552 <xsd:simpleType name="ST_ItemType">
1553     <xsd:restriction base="xsd:string">
1554         <xsd:enumeration value="data"/>
1555         <xsd:enumeration value="default"/>
1556         <xsd:enumeration value="sum"/>
1557         <xsd:enumeration value="countA"/>
1558         <xsd:enumeration value="avg"/>
1559         <xsd:enumeration value="max"/>
1560         <xsd:enumeration value="min"/>
1561         <xsd:enumeration value="product"/>
1562         <xsd:enumeration value="count"/>
1563         <xsd:enumeration value="stdDev"/>
1564         <xsd:enumeration value="stdDevP"/>
1565         <xsd:enumeration value="var"/>

```

```

1566         <xsd:enumeration value="varP"/>
1567         <xsd:enumeration value="grand"/>
1568         <xsd:enumeration value="blank"/>
1569     </xsd:restriction>
1570 </xsd:simpleType>
1571 <xsd:simpleType name="ST_FormatAction">
1572     <xsd:restriction base="xsd:string">
1573         <xsd:enumeration value="blank"/>
1574         <xsd:enumeration value="formatting"/>
1575         <xsd:enumeration value="drill"/>
1576         <xsd:enumeration value="formula"/>
1577     </xsd:restriction>
1578 </xsd:simpleType>
1579 <xsd:simpleType name="ST_FieldSortType">
1580     <xsd:restriction base="xsd:string">
1581         <xsd:enumeration value="manual"/>
1582         <xsd:enumeration value="ascending"/>
1583         <xsd:enumeration value="descending"/>
1584     </xsd:restriction>
1585 </xsd:simpleType>
1586 <xsd:simpleType name="ST_PivotFilterType">
1587     <xsd:restriction base="xsd:string">
1588         <xsd:enumeration value="unknown"/>
1589         <xsd:enumeration value="count"/>
1590         <xsd:enumeration value="percent"/>
1591         <xsd:enumeration value="sum"/>
1592         <xsd:enumeration value="captionEqual"/>
1593         <xsd:enumeration value="captionNotEqual"/>
1594         <xsd:enumeration value="captionBeginsWith"/>
1595         <xsd:enumeration value="captionNotBeginsWith"/>
1596         <xsd:enumeration value="captionEndsWith"/>
1597         <xsd:enumeration value="captionNotEndsWith"/>
1598         <xsd:enumeration value="captionContains"/>
1599         <xsd:enumeration value="captionNotContains"/>
1600         <xsd:enumeration value="captionGreaterThan"/>
1601         <xsd:enumeration value="captionGreaterThanOrEqual"/>
1602         <xsd:enumeration value="captionLessThan"/>
1603         <xsd:enumeration value="captionLessThanOrEqual"/>
1604         <xsd:enumeration value="captionBetween"/>
1605         <xsd:enumeration value="captionNotBetween"/>
1606         <xsd:enumeration value="valueEqual"/>
1607         <xsd:enumeration value="valueNotEqual"/>
1608         <xsd:enumeration value="valueGreaterThan"/>
1609         <xsd:enumeration value="valueGreaterThanOrEqual"/>
1610         <xsd:enumeration value="valueLessThan"/>
1611         <xsd:enumeration value="valueLessThanOrEqual"/>
1612         <xsd:enumeration value="valueBetween"/>
1613         <xsd:enumeration value="valueNotBetween"/>
1614         <xsd:enumeration value="dateEqual"/>
1615         <xsd:enumeration value="dateNotEqual"/>
1616         <xsd:enumeration value="dateOlderThan"/>
1617         <xsd:enumeration value="dateOlderThanOrEqual"/>
1618         <xsd:enumeration value="dateNewerThan"/>

```

```

1619     <xsd:enumeration value="dateNewerThanOrEqual"/>
1620     <xsd:enumeration value="dateBetween"/>
1621     <xsd:enumeration value="dateNotBetween"/>
1622     <xsd:enumeration value="tomorrow"/>
1623     <xsd:enumeration value="today"/>
1624     <xsd:enumeration value="yesterday"/>
1625     <xsd:enumeration value="nextWeek"/>
1626     <xsd:enumeration value="thisWeek"/>
1627     <xsd:enumeration value="lastWeek"/>
1628     <xsd:enumeration value="nextMonth"/>
1629     <xsd:enumeration value="thisMonth"/>
1630     <xsd:enumeration value="lastMonth"/>
1631     <xsd:enumeration value="nextQuarter"/>
1632     <xsd:enumeration value="thisQuarter"/>
1633     <xsd:enumeration value="lastQuarter"/>
1634     <xsd:enumeration value="nextYear"/>
1635     <xsd:enumeration value="thisYear"/>
1636     <xsd:enumeration value="lastYear"/>
1637     <xsd:enumeration value="yearToDate"/>
1638     <xsd:enumeration value="Q1"/>
1639     <xsd:enumeration value="Q2"/>
1640     <xsd:enumeration value="Q3"/>
1641     <xsd:enumeration value="Q4"/>
1642     <xsd:enumeration value="M1"/>
1643     <xsd:enumeration value="M2"/>
1644     <xsd:enumeration value="M3"/>
1645     <xsd:enumeration value="M4"/>
1646     <xsd:enumeration value="M5"/>
1647     <xsd:enumeration value="M6"/>
1648     <xsd:enumeration value="M7"/>
1649     <xsd:enumeration value="M8"/>
1650     <xsd:enumeration value="M9"/>
1651     <xsd:enumeration value="M10"/>
1652     <xsd:enumeration value="M11"/>
1653     <xsd:enumeration value="M12"/>
1654   </xsd:restriction>
1655 </xsd:simpleType>
1656 <xsd:complexType name="CT_PivotArea">
1657   <xsd:sequence>
1658     <xsd:element name="references" minOccurs="0" type="CT_PivotAreaReferences"/>
1659     <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>
1660   </xsd:sequence>
1661   <xsd:attribute name="field" use="optional" type="xsd:int"/>
1662   <xsd:attribute name="type" type="ST_PivotAreaType" default="normal"/>
1663   <xsd:attribute name="dataOnly" type="xsd:boolean" default="true"/>
1664   <xsd:attribute name="labelOnly" type="xsd:boolean" default="false"/>
1665   <xsd:attribute name="grandRow" type="xsd:boolean" default="false"/>
1666   <xsd:attribute name="grandCol" type="xsd:boolean" default="false"/>
1667   <xsd:attribute name="cacheIndex" type="xsd:boolean" default="false"/>
1668   <xsd:attribute name="outline" type="xsd:boolean" default="true"/>
1669   <xsd:attribute name="offset" type="ST_Ref"/>
1670   <xsd:attribute name="collapsedLevelsAreSubtotals" type="xsd:boolean" default="false"/>
1671   <xsd:attribute name="axis" type="ST_Axis" use="optional"/>

```



```

1672     <xsd:attribute name="fieldPosition" type="xsd:unsignedInt" use="optional"/>
1673 </xsd:complexType>
1674 <xsd:simpleType name="ST_PivotAreaType">
1675     <xsd:restriction base="xsd:string">
1676         <xsd:enumeration value="none"/>
1677         <xsd:enumeration value="normal"/>
1678         <xsd:enumeration value="data"/>
1679         <xsd:enumeration value="all"/>
1680         <xsd:enumeration value="origin"/>
1681         <xsd:enumeration value="button"/>
1682         <xsd:enumeration value="topEnd"/>
1683         <xsd:enumeration value="topRight"/>
1684     </xsd:restriction>
1685 </xsd:simpleType>
1686 <xsd:complexType name="CT_PivotAreaReferences">
1687     <xsd:sequence>
1688         <xsd:element name="reference" maxOccurs="unbounded" type="CT_PivotAreaReference"/>
1689     </xsd:sequence>
1690     <xsd:attribute name="count" type="xsd:unsignedInt"/>
1691 </xsd:complexType>
1692 <xsd:complexType name="CT_PivotAreaReference">
1693     <xsd:sequence>
1694         <xsd:element name="x" minOccurs="0" maxOccurs="unbounded" type="CT_Index"/>
1695         <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>
1696     </xsd:sequence>
1697     <xsd:attribute name="field" use="optional" type="xsd:unsignedInt"/>
1698     <xsd:attribute name="count" type="xsd:unsignedInt"/>
1699     <xsd:attribute name="selected" type="xsd:boolean" default="true"/>
1700     <xsd:attribute name="byPosition" type="xsd:boolean" default="false"/>
1701     <xsd:attribute name="relative" type="xsd:boolean" default="false"/>
1702     <xsd:attribute name="defaultSubtotal" type="xsd:boolean" default="false"/>
1703     <xsd:attribute name="sumSubtotal" type="xsd:boolean" default="false"/>
1704     <xsd:attribute name="countASubtotal" type="xsd:boolean" default="false"/>
1705     <xsd:attribute name="avgSubtotal" type="xsd:boolean" default="false"/>
1706     <xsd:attribute name="maxSubtotal" type="xsd:boolean" default="false"/>
1707     <xsd:attribute name="minSubtotal" type="xsd:boolean" default="false"/>
1708     <xsd:attribute name="productSubtotal" type="xsd:boolean" default="false"/>
1709     <xsd:attribute name="countSubtotal" type="xsd:boolean" default="false"/>
1710     <xsd:attribute name="stdDevSubtotal" type="xsd:boolean" default="false"/>
1711     <xsd:attribute name="stdDevPSubtotal" type="xsd:boolean" default="false"/>
1712     <xsd:attribute name="varSubtotal" type="xsd:boolean" default="false"/>
1713     <xsd:attribute name="varPSubtotal" type="xsd:boolean" default="false"/>
1714 </xsd:complexType>
1715 <xsd:complexType name="CT_Index">
1716     <xsd:attribute name="v" use="required" type="xsd:unsignedInt"/>
1717 </xsd:complexType>
1718 <xsd:simpleType name="ST_Axis">
1719     <xsd:restriction base="xsd:string">
1720         <xsd:enumeration value="axisRow"/>
1721         <xsd:enumeration value="axisCol"/>
1722         <xsd:enumeration value="axisPage"/>
1723         <xsd:enumeration value="axisValues"/>
1724     </xsd:restriction>

```



```

1725 </xsd:simpleType>
1726 <xsd:element name="queryTable" type="CT_QueryTable"/>
1727 <xsd:complexType name="CT_QueryTable">
1728     <xsd:sequence>
1729         <xsd:element name="queryTableRefresh" type="CT_QueryTableRefresh" minOccurs="0"
1730             maxOccurs="1"/>
1731         <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
1732     </xsd:sequence>
1733     <xsd:attribute name="name" type="s:ST_Xstring" use="required"/>
1734     <xsd:attribute name="headers" type="xsd:boolean" use="optional" default="true"/>
1735     <xsd:attribute name="rowNumbers" type="xsd:boolean" use="optional" default="false"/>
1736     <xsd:attribute name="disableRefresh" type="xsd:boolean" use="optional" default="false"/>
1737     <xsd:attribute name="backgroundRefresh" type="xsd:boolean" use="optional" default="true"/>
1738     <xsd:attribute name="firstBackgroundRefresh" type="xsd:boolean" use="optional"
1739         default="false"/>
1740     <xsd:attribute name="refreshOnLoad" type="xsd:boolean" use="optional" default="false"/>
1741     <xsd:attribute name="growShrinkType" type="ST_GrowShrinkType" use="optional"
1742         default="insertDelete"/>
1743     <xsd:attribute name="fillFormulas" type="xsd:boolean" use="optional" default="false"/>
1744     <xsd:attribute name="removeDataOnSave" type="xsd:boolean" use="optional" default="false"/>
1745     <xsd:attribute name="disableEdit" type="xsd:boolean" use="optional" default="false"/>
1746     <xsd:attribute name="preserveFormatting" type="xsd:boolean" use="optional" default="true"/>
1747     <xsd:attribute name="adjustColumnWidth" type="xsd:boolean" use="optional" default="true"/>
1748     <xsd:attribute name="intermediate" type="xsd:boolean" use="optional" default="false"/>
1749     <xsd:attribute name="connectionId" type="xsd:unsignedInt" use="required"/>
1750     <xsd:attributeGroup ref="AG_AutoFormat"/>
1751 </xsd:complexType>
1752 <xsd:complexType name="CT_QueryTableRefresh">
1753     <xsd:sequence>
1754         <xsd:element name="queryTableFields" type="CT_QueryTableFields" minOccurs="1"
1755             maxOccurs="1"/>
1756         <xsd:element name="queryTableDeletedFields" type="CT_QueryTableDeletedFields"
1757             minOccurs="0" maxOccurs="1"/>
1758         <xsd:element name="sortState" minOccurs="0" maxOccurs="1" type="CT_SortState"/>
1759         <xsd:element name="extLst" minOccurs="0" maxOccurs="1" type="CT_ExtensionList"/>
1760     </xsd:sequence>
1761     <xsd:attribute name="preserveSortFilterLayout" type="xsd:boolean" use="optional"
1762         default="true"/>
1763     <xsd:attribute name="fieldIdWrapped" type="xsd:boolean" use="optional" default="false"/>
1764     <xsd:attribute name="headersInLastRefresh" type="xsd:boolean" use="optional" default="true"/>
1765     <xsd:attribute name="minimumVersion" type="xsd:unsignedByte" use="optional" default="0"/>
1766     <xsd:attribute name="nextId" type="xsd:unsignedInt" use="optional" default="1"/>
1767     <xsd:attribute name="unboundColumnsLeft" type="xsd:unsignedInt" use="optional" default="0"/>
1768     <xsd:attribute name="unboundColumnsRight" type="xsd:unsignedInt" use="optional" default="0"/>
1769 </xsd:complexType>
1770 <xsd:complexType name="CT_QueryTableDeletedFields">
1771     <xsd:sequence>
1772         <xsd:element name="deletedField" type="CT_DeletedField" minOccurs="1"
1773             maxOccurs="unbounded"/>
1774     </xsd:sequence>
1775     <xsd:attribute name="count" type="xsd:unsignedInt" use="optional"/>
1776 </xsd:complexType>
1777 <xsd:complexType name="CT_DeletedField">

```

```

1778     <xsd:attribute name="name" type="s:ST_Xstring" use="required"/>
1779 </xsd:complexType>
1780 <xsd:complexType name="CT_QueryTableFields">
1781     <xsd:sequence>
1782         <xsd:element name="queryTableField" type="CT_QueryTableField" minOccurs="0"
1783             maxOccurs="unbounded"/>
1784     </xsd:sequence>
1785     <xsd:attribute name="count" type="xsd:unsignedInt" use="optional" default="0"/>
1786 </xsd:complexType>
1787 <xsd:complexType name="CT_QueryTableField">
1788     <xsd:sequence minOccurs="0">
1789         <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
1790     </xsd:sequence>
1791     <xsd:attribute name="id" type="xsd:unsignedInt" use="required"/>
1792     <xsd:attribute name="name" type="s:ST_Xstring" use="optional"/>
1793     <xsd:attribute name="dataBound" type="xsd:boolean" use="optional" default="true"/>
1794     <xsd:attribute name="rowNumbers" type="xsd:boolean" use="optional" default="false"/>
1795     <xsd:attribute name="fillFormulas" type="xsd:boolean" use="optional" default="false"/>
1796     <xsd:attribute name="clipped" type="xsd:boolean" use="optional" default="false"/>
1797     <xsd:attribute name="tableColumnId" type="xsd:unsignedInt" default="0"/>
1798 </xsd:complexType>
1799 <xsd:simpleType name="ST_GrowShrinkType">
1800     <xsd:restriction base="xsd:string">
1801         <xsd:enumeration value="insertDelete"/>
1802         <xsd:enumeration value="insertClear"/>
1803         <xsd:enumeration value="overwriteClear"/>
1804     </xsd:restriction>
1805 </xsd:simpleType>
1806 <xsd:element name="sst" type="CT_Sst"/>
1807 <xsd:complexType name="CT_Sst">
1808     <xsd:sequence>
1809         <xsd:element name="si" type="CT_Rst" minOccurs="0" maxOccurs="unbounded"/>
1810         <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>
1811     </xsd:sequence>
1812     <xsd:attribute name="count" type="xsd:unsignedInt" use="optional"/>
1813     <xsd:attribute name="uniqueCount" type="xsd:unsignedInt" use="optional"/>
1814 </xsd:complexType>
1815 <xsd:simpleType name="ST_PhoneticType">
1816     <xsd:restriction base="xsd:string">
1817         <xsd:enumeration value="halfwidthKatakana"/>
1818         <xsd:enumeration value="fullwidthKatakana"/>
1819         <xsd:enumeration value="Hiragana"/>
1820         <xsd:enumeration value="noConversion"/>
1821     </xsd:restriction>
1822 </xsd:simpleType>
1823 <xsd:simpleType name="ST_PhoneticAlignment">
1824     <xsd:restriction base="xsd:string">
1825         <xsd:enumeration value="noControl"/>
1826         <xsd:enumeration value="left"/>
1827         <xsd:enumeration value="center"/>
1828         <xsd:enumeration value="distributed"/>
1829     </xsd:restriction>
1830 </xsd:simpleType>

```

```

1831 <xsd:complexType name="CT_PhoneticRun">
1832   <xsd:sequence>
1833     <xsd:element name="t" type="s:ST Xstring" minOccurs="1" maxOccurs="1"/>
1834   </xsd:sequence>
1835   <xsd:attribute name="sb" type="xsd:unsignedInt" use="required"/>
1836   <xsd:attribute name="eb" type="xsd:unsignedInt" use="required"/>
1837 </xsd:complexType>
1838 <xsd:complexType name="CT_RElt">
1839   <xsd:sequence>
1840     <xsd:element name="rPr" type="CT RPrElt" minOccurs="0" maxOccurs="1"/>
1841     <xsd:element name="t" type="s:ST Xstring" minOccurs="1" maxOccurs="1"/>
1842   </xsd:sequence>
1843 </xsd:complexType>
1844 <xsd:complexType name="CT_RPrElt">
1845   <xsd:choice maxOccurs="unbounded">
1846     <xsd:element name="rFont" type="CT FontName" minOccurs="0" maxOccurs="1"/>
1847     <xsd:element name="charset" type="CT IntProperty" minOccurs="0" maxOccurs="1"/>
1848     <xsd:element name="family" type="CT IntProperty" minOccurs="0" maxOccurs="1"/>
1849     <xsd:element name="b" type="CT BooleanProperty" minOccurs="0" maxOccurs="1"/>
1850     <xsd:element name="i" type="CT BooleanProperty" minOccurs="0" maxOccurs="1"/>
1851     <xsd:element name="strike" type="CT BooleanProperty" minOccurs="0" maxOccurs="1"/>
1852     <xsd:element name="outline" type="CT BooleanProperty" minOccurs="0" maxOccurs="1"/>
1853     <xsd:element name="shadow" type="CT BooleanProperty" minOccurs="0" maxOccurs="1"/>
1854     <xsd:element name="condense" type="CT BooleanProperty" minOccurs="0" maxOccurs="1"/>
1855     <xsd:element name="extend" type="CT BooleanProperty" minOccurs="0" maxOccurs="1"/>
1856     <xsd:element name="color" type="CT Color" minOccurs="0" maxOccurs="1"/>
1857     <xsd:element name="sz" type="CT FontSize" minOccurs="0" maxOccurs="1"/>
1858     <xsd:element name="u" type="CT UnderlineProperty" minOccurs="0" maxOccurs="1"/>
1859     <xsd:element name="vertAlign" type="CT VerticalAlignFontProperty" minOccurs="0"
1860       maxOccurs="1"/>
1861     <xsd:element name="scheme" type="CT FontScheme" minOccurs="0" maxOccurs="1"/>
1862   </xsd:choice>
1863 </xsd:complexType>
1864 <xsd:complexType name="CT_Rst">
1865   <xsd:sequence>
1866     <xsd:element name="t" type="s:ST Xstring" minOccurs="0" maxOccurs="1"/>
1867     <xsd:element name="r" type="CT RElt" minOccurs="0" maxOccurs="unbounded"/>
1868     <xsd:element name="rPh" type="CT PhoneticRun" minOccurs="0" maxOccurs="unbounded"/>
1869     <xsd:element name="phoneticPr" minOccurs="0" maxOccurs="1" type="CT PhoneticPr"/>
1870   </xsd:sequence>
1871 </xsd:complexType>
1872 <xsd:complexType name="CT_PhoneticPr">
1873   <xsd:attribute name="fontId" type="ST FontId" use="required"/>
1874   <xsd:attribute name="type" type="ST PhoneticType" use="optional" default="fullwidthKatakana"/>
1875   <xsd:attribute name="alignment" type="ST PhoneticAlignment" use="optional" default="left"/>
1876 </xsd:complexType>
1877 <xsd:element name="headers" type="CT RevisionHeaders"/>
1878 <xsd:element name="revisions" type="CT Revisions"/>
1879 <xsd:complexType name="CT_RevisionHeaders">
1880   <xsd:sequence>
1881     <xsd:element name="header" type="CT RevisionHeader" minOccurs="1" maxOccurs="unbounded"/>
1882   </xsd:sequence>
1883   <xsd:attribute name="guid" type="s:ST Guid" use="required"/>

```

```

1884 <xsd:attribute name="lastGuid" type="s:ST_Guid" use="optional"/>
1885 <xsd:attribute name="shared" type="xsd:boolean" default="true"/>
1886 <xsd:attribute name="diskRevisions" type="xsd:boolean" default="false"/>
1887 <xsd:attribute name="history" type="xsd:boolean" default="true"/>
1888 <xsd:attribute name="trackRevisions" type="xsd:boolean" default="true"/>
1889 <xsd:attribute name="exclusive" type="xsd:boolean" default="false"/>
1890 <xsd:attribute name="revisionId" type="xsd:unsignedInt" default="0"/>
1891 <xsd:attribute name="version" type="xsd:int" default="1"/>
1892 <xsd:attribute name="keepChangeHistory" type="xsd:boolean" use="optional" default="true"/>
1893 <xsd:attribute name="protected" type="xsd:boolean" use="optional" default="false"/>
1894 <xsd:attribute name="preserveHistory" type="xsd:unsignedInt" default="30"/>
1895 </xsd:complexType>
1896 <xsd:complexType name="CT_Revisions">
1897   <xsd:choice maxOccurs="unbounded">
1898     <xsd:element name="rrc" type="CT_RevisionRowColumn" minOccurs="0" maxOccurs="unbounded"/>
1899     <xsd:element name="rm" type="CT_RevisionMove" minOccurs="0" maxOccurs="unbounded"/>
1900     <xsd:element name="rcv" type="CT_RevisionCustomView" minOccurs="0" maxOccurs="unbounded"/>
1901     <xsd:element name="rsnm" type="CT_RevisionSheetRename" minOccurs="0"
1902       maxOccurs="unbounded"/>
1903     <xsd:element name="ris" type="CT_RevisionInsertSheet" minOccurs="0"
1904       maxOccurs="unbounded"/>
1905     <xsd:element name="rcc" type="CT_RevisionCellChange" minOccurs="0" maxOccurs="unbounded"/>
1906     <xsd:element name="rfmt" type="CT_RevisionFormatting" minOccurs="0"
1907       maxOccurs="unbounded"/>
1908     <xsd:element name="raf" type="CT_RevisionAutoFormatting" minOccurs="0"
1909       maxOccurs="unbounded"/>
1910     <xsd:element name="rdn" type="CT_RevisionDefinedName" minOccurs="0"
1911       maxOccurs="unbounded"/>
1912     <xsd:element name="rcmt" type="CT_RevisionComment" minOccurs="0" maxOccurs="unbounded"/>
1913     <xsd:element name="rqt" type="CT_RevisionQueryTableField" minOccurs="0"
1914       maxOccurs="unbounded"/>
1915     <xsd:element name="rcft" type="CT_RevisionConflict" minOccurs="0" maxOccurs="unbounded"/>
1916   </xsd:choice>
1917 </xsd:complexType>
1918 <xsd:attributeGroup name="AG_RevData">
1919   <xsd:attribute name="Id" type="xsd:unsignedInt" use="required"/>
1920   <xsd:attribute name="ua" type="xsd:boolean" use="optional" default="false"/>
1921   <xsd:attribute name="ra" type="xsd:boolean" use="optional" default="false"/>
1922 </xsd:attributeGroup>
1923 <xsd:complexType name="CT_RevisionHeader">
1924   <xsd:sequence>
1925     <xsd:element name="sheetIdMap" minOccurs="1" maxOccurs="1" type="CT_SheetIdMap"/>
1926     <xsd:element name="reviewedList" minOccurs="0" maxOccurs="1" type="CT_ReviewedRevisions"/>
1927     <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>
1928   </xsd:sequence>
1929   <xsd:attribute name="guid" type="s:ST_Guid" use="required"/>
1930   <xsd:attribute name="dateTime" type="xsd:dateTime" use="required"/>
1931   <xsd:attribute name="maxSheetId" type="xsd:unsignedInt" use="required"/>
1932   <xsd:attribute name="userName" type="s:ST_Xstring" use="required"/>
1933   <xsd:attribute ref="r:id" use="required"/>
1934   <xsd:attribute name="minRId" type="xsd:unsignedInt" use="optional"/>
1935   <xsd:attribute name="maxRId" type="xsd:unsignedInt" use="optional"/>
1936 </xsd:complexType>

```

```

1937 <xsd:complexType name="CT_SheetIdMap">
1938   <xsd:sequence>
1939     <xsd:element name="sheetId" type="CT_SheetId" minOccurs="1" maxOccurs="unbounded"/>
1940   </xsd:sequence>
1941   <xsd:attribute name="count" type="xsd:unsignedInt" use="optional"/>
1942 </xsd:complexType>
1943 <xsd:complexType name="CT_SheetId">
1944   <xsd:attribute name="val" type="xsd:unsignedInt" use="required"/>
1945 </xsd:complexType>
1946 <xsd:complexType name="CT_ReviewedRevisions">
1947   <xsd:sequence>
1948     <xsd:element name="reviewed" type="CT_Reviewed" minOccurs="1" maxOccurs="unbounded"/>
1949   </xsd:sequence>
1950   <xsd:attribute name="count" type="xsd:unsignedInt" use="optional"/>
1951 </xsd:complexType>
1952 <xsd:complexType name="CT_Reviewed">
1953   <xsd:attribute name="rId" type="xsd:unsignedInt" use="required"/>
1954 </xsd:complexType>
1955 <xsd:complexType name="CT_UndoInfo">
1956   <xsd:attribute name="index" type="xsd:unsignedInt" use="required"/>
1957   <xsd:attribute name="exp" type="ST_FormulaExpression" use="required"/>
1958   <xsd:attribute name="ref3D" type="xsd:boolean" use="optional" default="false"/>
1959   <xsd:attribute name="array" type="xsd:boolean" use="optional" default="false"/>
1960   <xsd:attribute name="v" type="xsd:boolean" use="optional" default="false"/>
1961   <xsd:attribute name="nf" type="xsd:boolean" use="optional" default="false"/>
1962   <xsd:attribute name="cs" type="xsd:boolean" use="optional" default="false"/>
1963   <xsd:attribute name="dr" type="ST_RefA" use="required"/>
1964   <xsd:attribute name="dn" type="s:ST_Xstring" use="optional"/>
1965   <xsd:attribute name="r" type="ST_CellRef" use="optional"/>
1966   <xsd:attribute name="sId" type="xsd:unsignedInt" use="optional"/>
1967 </xsd:complexType>
1968 <xsd:complexType name="CT_RevisionRowColumn">
1969   <xsd:choice minOccurs="0" maxOccurs="unbounded">
1970     <xsd:element name="undo" type="CT_UndoInfo" minOccurs="0" maxOccurs="unbounded"/>
1971     <xsd:element name="rcc" type="CT_RevisionCellChange" minOccurs="0" maxOccurs="unbounded"/>
1972     <xsd:element name="rfmt" type="CT_RevisionFormatting" minOccurs="0"
1973       maxOccurs="unbounded"/>
1974   </xsd:choice>
1975   <xsd:attributeGroup ref="AG_RevData"/>
1976   <xsd:attribute name="sId" type="xsd:unsignedInt" use="required"/>
1977   <xsd:attribute name="eol" type="xsd:boolean" use="optional" default="false"/>
1978   <xsd:attribute name="ref" type="ST_Ref" use="required"/>
1979   <xsd:attribute name="action" type="ST_rwColActionType" use="required"/>
1980   <xsd:attribute name="edge" type="xsd:boolean" use="optional" default="false"/>
1981 </xsd:complexType>
1982 <xsd:complexType name="CT_RevisionMove">
1983   <xsd:choice minOccurs="0" maxOccurs="unbounded">
1984     <xsd:element name="undo" type="CT_UndoInfo" minOccurs="0" maxOccurs="unbounded"/>
1985     <xsd:element name="rcc" type="CT_RevisionCellChange" minOccurs="0" maxOccurs="unbounded"/>
1986     <xsd:element name="rfmt" type="CT_RevisionFormatting" minOccurs="0"
1987       maxOccurs="unbounded"/>
1988   </xsd:choice>
1989   <xsd:attributeGroup ref="AG_RevData"/>

```

```

1990     <xsd:attribute name="sheetId" type="xsd:unsignedInt" use="required"/>
1991     <xsd:attribute name="source" type="ST Ref" use="required"/>
1992     <xsd:attribute name="destination" type="ST Ref" use="required"/>
1993     <xsd:attribute name="sourceSheetId" type="xsd:unsignedInt" use="optional" default="0"/>
1994 </xsd:complexType>
1995 <xsd:complexType name="CT_RevisionCustomView">
1996     <xsd:attribute name="guid" type="s:ST Guid" use="required"/>
1997     <xsd:attribute name="action" type="ST RevisionAction" use="required"/>
1998 </xsd:complexType>
1999 <xsd:complexType name="CT_RevisionSheetRename">
2000     <xsd:sequence>
2001         <xsd:element name="extLst" minOccurs="0" type="CT ExtensionList"/>
2002     </xsd:sequence>
2003     <xsd:attributeGroup ref="AG RevData"/>
2004     <xsd:attribute name="sheetId" type="xsd:unsignedInt" use="required"/>
2005     <xsd:attribute name="oldName" type="s:ST Xstring" use="required"/>
2006     <xsd:attribute name="newName" type="s:ST Xstring" use="required"/>
2007 </xsd:complexType>
2008 <xsd:complexType name="CT_RevisionInsertSheet">
2009     <xsd:attributeGroup ref="AG RevData"/>
2010     <xsd:attribute name="sheetId" type="xsd:unsignedInt" use="required"/>
2011     <xsd:attribute name="name" type="s:ST Xstring" use="required"/>
2012     <xsd:attribute name="sheetPosition" type="xsd:unsignedInt" use="required"/>
2013 </xsd:complexType>
2014 <xsd:complexType name="CT_RevisionCellChange">
2015     <xsd:sequence>
2016         <xsd:element name="oc" type="CT Cell" minOccurs="0" maxOccurs="1"/>
2017         <xsd:element name="nc" type="CT Cell" minOccurs="1" maxOccurs="1"/>
2018         <xsd:element name="odxf" type="CT Dxf" minOccurs="0" maxOccurs="1"/>
2019         <xsd:element name="ndx" type="CT Dxf" minOccurs="0" maxOccurs="1"/>
2020         <xsd:element name="extLst" minOccurs="0" type="CT ExtensionList"/>
2021     </xsd:sequence>
2022     <xsd:attributeGroup ref="AG RevData"/>
2023     <xsd:attribute name="sId" type="xsd:unsignedInt" use="required"/>
2024     <xsd:attribute name="odxf" type="xsd:boolean" default="false"/>
2025     <xsd:attribute name="xfDxf" type="xsd:boolean" use="optional" default="false"/>
2026     <xsd:attribute name="s" type="xsd:boolean" use="optional" default="false"/>
2027     <xsd:attribute name="dxf" type="xsd:boolean" default="false"/>
2028     <xsd:attribute name="numFmtId" type="ST NumFmtId" use="optional"/>
2029     <xsd:attribute name="quotePrefix" type="xsd:boolean" use="optional" default="false"/>
2030     <xsd:attribute name="oldQuotePrefix" type="xsd:boolean" use="optional" default="false"/>
2031     <xsd:attribute name="ph" type="xsd:boolean" default="false"/>
2032     <xsd:attribute name="oldPh" type="xsd:boolean" default="false"/>
2033     <xsd:attribute name="endOfListFormulaUpdate" type="xsd:boolean" default="false"/>
2034 </xsd:complexType>
2035 <xsd:complexType name="CT_RevisionFormatting">
2036     <xsd:sequence>
2037         <xsd:element name="dxf" type="CT Dxf" minOccurs="0" maxOccurs="1"/>
2038         <xsd:element name="extLst" minOccurs="0" type="CT ExtensionList"/>
2039     </xsd:sequence>
2040     <xsd:attribute name="sheetId" type="xsd:unsignedInt" use="required"/>
2041     <xsd:attribute name="xfDxf" type="xsd:boolean" use="optional" default="false"/>
2042     <xsd:attribute name="s" type="xsd:boolean" use="optional" default="false"/>

```



```

2043     <xsd:attribute name="sqref" type="ST Sqref" use="required"/>
2044     <xsd:attribute name="start" type="xsd:unsignedInt" use="optional"/>
2045     <xsd:attribute name="length" type="xsd:unsignedInt" use="optional"/>
2046 </xsd:complexType>
2047 <xsd:complexType name="CT_RevisionAutoFormatting">
2048     <xsd:attribute name="sheetId" type="xsd:unsignedInt" use="required"/>
2049     <xsd:attributeGroup ref="AG AutoFormat"/>
2050     <xsd:attribute name="ref" type="ST Ref" use="required"/>
2051 </xsd:complexType>
2052 <xsd:complexType name="CT_RevisionComment">
2053     <xsd:attribute name="sheetId" type="xsd:unsignedInt" use="required"/>
2054     <xsd:attribute name="cell" type="ST CellRef" use="required"/>
2055     <xsd:attribute name="guid" type="s:ST Guid" use="required"/>
2056     <xsd:attribute name="action" type="ST RevisionAction" default="add"/>
2057     <xsd:attribute name="alwaysShow" type="xsd:boolean" use="optional" default="false"/>
2058     <xsd:attribute name="old" type="xsd:boolean" use="optional" default="false"/>
2059     <xsd:attribute name="hiddenRow" type="xsd:boolean" use="optional" default="false"/>
2060     <xsd:attribute name="hiddenColumn" type="xsd:boolean" use="optional" default="false"/>
2061     <xsd:attribute name="author" type="s:ST Xstring" use="required"/>
2062     <xsd:attribute name="oldLength" type="xsd:unsignedInt" default="0"/>
2063     <xsd:attribute name="newLength" type="xsd:unsignedInt" default="0"/>
2064 </xsd:complexType>
2065 <xsd:complexType name="CT_RevisionDefinedName">
2066     <xsd:sequence>
2067         <xsd:element name="formula" type="ST Formula" minOccurs="0" maxOccurs="1"/>
2068         <xsd:element name="oldFormula" type="ST Formula" minOccurs="0" maxOccurs="1"/>
2069         <xsd:element name="extLst" minOccurs="0" type="CT ExtensionList"/>
2070     </xsd:sequence>
2071     <xsd:attributeGroup ref="AG RevData"/>
2072     <xsd:attribute name="localSheetId" type="xsd:unsignedInt" use="optional"/>
2073     <xsd:attribute name="customView" type="xsd:boolean" use="optional" default="false"/>
2074     <xsd:attribute name="name" type="s:ST Xstring" use="required"/>
2075     <xsd:attribute name="function" type="xsd:boolean" use="optional" default="false"/>
2076     <xsd:attribute name="oldFunction" type="xsd:boolean" default="false"/>
2077     <xsd:attribute name="functionGroupId" type="xsd:unsignedByte" use="optional"/>
2078     <xsd:attribute name="oldFunctionGroupId" type="xsd:unsignedByte" use="optional"/>
2079     <xsd:attribute name="shortcutKey" type="xsd:unsignedByte" use="optional"/>
2080     <xsd:attribute name="oldShortcutKey" type="xsd:unsignedByte" use="optional"/>
2081     <xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/>
2082     <xsd:attribute name="oldHidden" type="xsd:boolean" use="optional" default="false"/>
2083     <xsd:attribute name="customMenu" type="s:ST Xstring" use="optional"/>
2084     <xsd:attribute name="oldCustomMenu" type="s:ST Xstring" use="optional"/>
2085     <xsd:attribute name="description" type="s:ST Xstring" use="optional"/>
2086     <xsd:attribute name="oldDescription" type="s:ST Xstring" use="optional"/>
2087     <xsd:attribute name="help" type="s:ST Xstring" use="optional"/>
2088     <xsd:attribute name="oldHelp" type="s:ST Xstring" use="optional"/>
2089     <xsd:attribute name="statusBar" type="s:ST Xstring" use="optional"/>
2090     <xsd:attribute name="oldStatusBar" type="s:ST Xstring" use="optional"/>
2091     <xsd:attribute name="comment" type="s:ST Xstring" use="optional"/>
2092     <xsd:attribute name="oldComment" type="s:ST Xstring" use="optional"/>
2093 </xsd:complexType>
2094 <xsd:complexType name="CT_RevisionConflict">
2095     <xsd:attributeGroup ref="AG RevData"/>

```

```

2096     <xsd:attribute name="sheetId" type="xsd:unsignedInt" use="optional"/>
2097 </xsd:complexType>
2098 <xsd:complexType name="CT_RevisionQueryTableField">
2099     <xsd:attribute name="sheetId" type="xsd:unsignedInt" use="required"/>
2100     <xsd:attribute name="ref" type="ST_Ref" use="required"/>
2101     <xsd:attribute name="fieldId" type="xsd:unsignedInt" use="required"/>
2102 </xsd:complexType>
2103 <xsd:simpleType name="ST_rwColActionType">
2104     <xsd:restriction base="xsd:string">
2105         <xsd:enumeration value="insertRow"/>
2106         <xsd:enumeration value="deleteRow"/>
2107         <xsd:enumeration value="insertCol"/>
2108         <xsd:enumeration value="deleteCol"/>
2109     </xsd:restriction>
2110 </xsd:simpleType>
2111 <xsd:simpleType name="ST_RevisionAction">
2112     <xsd:restriction base="xsd:string">
2113         <xsd:enumeration value="add"/>
2114         <xsd:enumeration value="delete"/>
2115     </xsd:restriction>
2116 </xsd:simpleType>
2117 <xsd:simpleType name="ST_FormulaExpression">
2118     <xsd:restriction base="xsd:string">
2119         <xsd:enumeration value="ref"/>
2120         <xsd:enumeration value="refError"/>
2121         <xsd:enumeration value="area"/>
2122         <xsd:enumeration value="areaError"/>
2123         <xsd:enumeration value="computedArea"/>
2124     </xsd:restriction>
2125 </xsd:simpleType>
2126 <xsd:element name="users" type="CT_Users"/>
2127 <xsd:complexType name="CT_Users">
2128     <xsd:sequence>
2129         <xsd:element name="userInfo" minOccurs="0" maxOccurs="256" type="CT_SharedUser"/>
2130     </xsd:sequence>
2131     <xsd:attribute name="count" type="xsd:unsignedInt" use="optional"/>
2132 </xsd:complexType>
2133 <xsd:complexType name="CT_SharedUser">
2134     <xsd:sequence>
2135         <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>
2136     </xsd:sequence>
2137     <xsd:attribute name="guid" type="s:ST_Guid" use="required"/>
2138     <xsd:attribute name="name" type="s:ST_Xstring" use="required"/>
2139     <xsd:attribute name="id" type="xsd:int" use="required"/>
2140     <xsd:attribute name="dateTime" type="xsd:dateTime" use="required"/>
2141 </xsd:complexType>
2142 <xsd:element name="worksheet" type="CT_Worksheet"/>
2143 <xsd:element name="chartsheet" type="CT_Chartsheet"/>
2144 <xsd:element name="dialogsheet" type="CT_Dialogsheet"/>
2145 <xsd:complexType name="CT_Macrosheet">
2146     <xsd:sequence>
2147         <xsd:element name="sheetPr" type="CT_SheetPr" minOccurs="0" maxOccurs="1"/>
2148         <xsd:element name="dimension" type="CT_SheetDimension" minOccurs="0" maxOccurs="1"/>

```



```

2149 <xsd:element name="sheetViews" type="CT_SheetViews" minOccurs="0" maxOccurs="1"/>
2150 <xsd:element name="sheetFormatPr" type="CT_SheetFormatPr" minOccurs="0" maxOccurs="1"/>
2151 <xsd:element name="cols" type="CT_Cols" minOccurs="0" maxOccurs="unbounded"/>
2152 <xsd:element name="sheetData" type="CT_SheetData" minOccurs="1" maxOccurs="1"/>
2153 <xsd:element name="sheetProtection" type="CT_SheetProtection" minOccurs="0"
2154     maxOccurs="1"/>
2155 <xsd:element name="autoFilter" type="CT_AutoFilter" minOccurs="0" maxOccurs="1"/>
2156 <xsd:element name="sortState" type="CT_SortState" minOccurs="0" maxOccurs="1"/>
2157 <xsd:element name="dataConsolidate" type="CT_DataConsolidate" minOccurs="0"
2158     maxOccurs="1"/>
2159 <xsd:element name="customSheetViews" type="CT_CustomSheetViews" minOccurs="0"
2160     maxOccurs="1"/>
2161 <xsd:element name="phoneticPr" type="CT_PhoneticPr" minOccurs="0" maxOccurs="1"/>
2162 <xsd:element name="conditionalFormatting" type="CT_ConditionalFormatting" minOccurs="0"
2163     maxOccurs="unbounded"/>
2164 <xsd:element name="printOptions" type="CT_PrintOptions" minOccurs="0" maxOccurs="1"/>
2165 <xsd:element name="pageMargins" type="CT_PageMargins" minOccurs="0" maxOccurs="1"/>
2166 <xsd:element name="pageSetup" type="CT_PageSetup" minOccurs="0" maxOccurs="1"/>
2167 <xsd:element name="headerFooter" type="CT_HeaderFooter" minOccurs="0" maxOccurs="1"/>
2168 <xsd:element name="rowBreaks" type="CT_PageBreak" minOccurs="0" maxOccurs="1"/>
2169 <xsd:element name="colBreaks" type="CT_PageBreak" minOccurs="0" maxOccurs="1"/>
2170 <xsd:element name="customProperties" type="CT_CustomProperties" minOccurs="0"
2171     maxOccurs="1"/>
2172 <xsd:element name="drawing" type="CT_Drawing" minOccurs="0" maxOccurs="1"/>
2173 <xsd:element name="legacyDrawing" type="CT_LegacyDrawing" minOccurs="0" maxOccurs="1"/>
2174 <xsd:element name="legacyDrawingHF" type="CT_LegacyDrawing" minOccurs="0" maxOccurs="1"/>
2175 <xsd:element name="drawingHF" type="CT_DrawingHF" minOccurs="0" maxOccurs="1"/>
2176 <xsd:element name="picture" type="CT_SheetBackgroundPicture" minOccurs="0" maxOccurs="1"/>
2177 <xsd:element name="oleObjects" type="CT_OleObjects" minOccurs="0" maxOccurs="1"/>
2178 <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>
2179 </xsd:sequence>
2180 </xsd:complexType>
2181 <xsd:complexType name="CT_Dialogsheet">
2182     <xsd:sequence>
2183         <xsd:element name="sheetPr" minOccurs="0" type="CT_SheetPr"/>
2184         <xsd:element name="sheetViews" minOccurs="0" type="CT_SheetViews"/>
2185         <xsd:element name="sheetFormatPr" minOccurs="0" type="CT_SheetFormatPr"/>
2186         <xsd:element name="sheetProtection" type="CT_SheetProtection" minOccurs="0"
2187             maxOccurs="1"/>
2188         <xsd:element name="customSheetViews" minOccurs="0" type="CT_CustomSheetViews"/>
2189         <xsd:element name="printOptions" minOccurs="0" type="CT_PrintOptions"/>
2190         <xsd:element name="pageMargins" minOccurs="0" type="CT_PageMargins"/>
2191         <xsd:element name="pageSetup" minOccurs="0" type="CT_PageSetup"/>
2192         <xsd:element name="headerFooter" minOccurs="0" type="CT_HeaderFooter"/>
2193         <xsd:element name="drawing" minOccurs="0" type="CT_Drawing"/>
2194         <xsd:element name="legacyDrawing" minOccurs="0" type="CT_LegacyDrawing"/>
2195         <xsd:element name="legacyDrawingHF" type="CT_LegacyDrawing" minOccurs="0" maxOccurs="1"/>
2196         <xsd:element name="drawingHF" type="CT_DrawingHF" minOccurs="0" maxOccurs="1"/>
2197         <xsd:element name="oleObjects" type="CT_OleObjects" minOccurs="0" maxOccurs="1"/>
2198         <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>
2199     </xsd:sequence>
2200 </xsd:complexType>
2201 <xsd:complexType name="CT_Worksheet">

```

```

2202 <xsd:sequence>
2203   <xsd:element name="sheetPr" type="CT_SheetPr" minOccurs="0" maxOccurs="1"/>
2204   <xsd:element name="dimension" type="CT_SheetDimension" minOccurs="0" maxOccurs="1"/>
2205   <xsd:element name="sheetViews" type="CT_SheetViews" minOccurs="0" maxOccurs="1"/>
2206   <xsd:element name="sheetFormatPr" type="CT_SheetFormatPr" minOccurs="0" maxOccurs="1"/>
2207   <xsd:element name="cols" type="CT_Cols" minOccurs="0" maxOccurs="unbounded"/>
2208   <xsd:element name="sheetData" type="CT_SheetData" minOccurs="1" maxOccurs="1"/>
2209   <xsd:element name="sheetCalcPr" type="CT_SheetCalcPr" minOccurs="0" maxOccurs="1"/>
2210   <xsd:element name="sheetProtection" type="CT_SheetProtection" minOccurs="0"
2211     maxOccurs="1"/>
2212   <xsd:element name="protectedRanges" type="CT_ProtectedRanges" minOccurs="0"
2213     maxOccurs="1"/>
2214   <xsd:element name="scenarios" type="CT_Scenarios" minOccurs="0" maxOccurs="1"/>
2215   <xsd:element name="autoFilter" type="CT_AutoFilter" minOccurs="0" maxOccurs="1"/>
2216   <xsd:element name="sortState" type="CT_SortState" minOccurs="0" maxOccurs="1"/>
2217   <xsd:element name="dataConsolidate" type="CT_DataConsolidate" minOccurs="0"
2218     maxOccurs="1"/>
2219   <xsd:element name="customSheetViews" type="CT_CustomSheetViews" minOccurs="0"
2220     maxOccurs="1"/>
2221   <xsd:element name="mergeCells" type="CT_MergeCells" minOccurs="0" maxOccurs="1"/>
2222   <xsd:element name="phoneticPr" type="CT_PhoneticPr" minOccurs="0" maxOccurs="1"/>
2223   <xsd:element name="conditionalFormatting" type="CT_ConditionalFormatting" minOccurs="0"
2224     maxOccurs="unbounded"/>
2225   <xsd:element name="dataValidations" type="CT_DataValidations" minOccurs="0"
2226     maxOccurs="1"/>
2227   <xsd:element name="hyperlinks" type="CT_Hyperlinks" minOccurs="0" maxOccurs="1"/>
2228   <xsd:element name="printOptions" type="CT_PrintOptions" minOccurs="0" maxOccurs="1"/>
2229   <xsd:element name="pageMargins" type="CT_PageMargins" minOccurs="0" maxOccurs="1"/>
2230   <xsd:element name="pageSetup" type="CT_PageSetup" minOccurs="0" maxOccurs="1"/>
2231   <xsd:element name="headerFooter" type="CT_HeaderFooter" minOccurs="0" maxOccurs="1"/>
2232   <xsd:element name="rowBreaks" type="CT_PageBreak" minOccurs="0" maxOccurs="1"/>
2233   <xsd:element name="colBreaks" type="CT_PageBreak" minOccurs="0" maxOccurs="1"/>
2234   <xsd:element name="customProperties" type="CT_CustomProperties" minOccurs="0"
2235     maxOccurs="1"/>
2236   <xsd:element name="cellWatches" type="CT_CellWatches" minOccurs="0" maxOccurs="1"/>
2237   <xsd:element name="ignoredErrors" type="CT_IgnoredErrors" minOccurs="0" maxOccurs="1"/>
2238   <xsd:element name="smartTags" type="CT_SmartTags" minOccurs="0" maxOccurs="1"/>
2239   <xsd:element name="drawing" type="CT_Drawing" minOccurs="0" maxOccurs="1"/>
2240   <xsd:element name="legacyDrawing" type="CT_LegacyDrawing" minOccurs="0" maxOccurs="1"/>
2241   <xsd:element name="legacyDrawingHF" type="CT_LegacyDrawing" minOccurs="0" maxOccurs="1"/>
2242   <xsd:element name="drawingHF" type="CT_DrawingHF" minOccurs="0" maxOccurs="1"/>
2243   <xsd:element name="picture" type="CT_SheetBackgroundPicture" minOccurs="0" maxOccurs="1"/>
2244   <xsd:element name="oleObjects" type="CT_OleObjects" minOccurs="0" maxOccurs="1"/>
2245   <xsd:element name="controls" type="CT_Controls" minOccurs="0" maxOccurs="1"/>
2246   <xsd:element name="webPublishItems" type="CT_WebPublishItems" minOccurs="0"
2247     maxOccurs="1"/>
2248   <xsd:element name="tableParts" type="CT_TableParts" minOccurs="0" maxOccurs="1"/>
2249   <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
2250 </xsd:sequence>
2251 </xsd:complexType>
2252 <xsd:complexType name="CT_SheetData">
2253   <xsd:sequence>
2254     <xsd:element name="row" type="CT_Row" minOccurs="0" maxOccurs="unbounded"/>

```

```

2255     </xsd:sequence>
2256 </xsd:complexType>
2257 <xsd:complexType name="CT_SheetCalcPr">
2258     <xsd:attribute name="fullCalcOnLoad" type="xsd:boolean" use="optional" default="false"/>
2259 </xsd:complexType>
2260 <xsd:complexType name="CT_SheetFormatPr">
2261     <xsd:attribute name="baseColWidth" type="xsd:unsignedInt" use="optional" default="8"/>
2262     <xsd:attribute name="defaultColWidth" type="xsd:double" use="optional"/>
2263     <xsd:attribute name="defaultRowHeight" type="xsd:double" use="required"/>
2264     <xsd:attribute name="customHeight" type="xsd:boolean" use="optional" default="false"/>
2265     <xsd:attribute name="zeroHeight" type="xsd:boolean" use="optional" default="false"/>
2266     <xsd:attribute name="thickTop" type="xsd:boolean" use="optional" default="false"/>
2267     <xsd:attribute name="thickBottom" type="xsd:boolean" use="optional" default="false"/>
2268     <xsd:attribute name="outlineLevelRow" type="xsd:unsignedByte" use="optional" default="0"/>
2269     <xsd:attribute name="outlineLevelCol" type="xsd:unsignedByte" use="optional" default="0"/>
2270 </xsd:complexType>
2271 <xsd:complexType name="CT_Cols">
2272     <xsd:sequence>
2273         <xsd:element name="col" type="CT_Col" minOccurs="1" maxOccurs="unbounded"/>
2274     </xsd:sequence>
2275 </xsd:complexType>
2276 <xsd:complexType name="CT_Col">
2277     <xsd:attribute name="min" type="xsd:unsignedInt" use="required"/>
2278     <xsd:attribute name="max" type="xsd:unsignedInt" use="required"/>
2279     <xsd:attribute name="width" type="xsd:double" use="optional"/>
2280     <xsd:attribute name="style" type="xsd:unsignedInt" use="optional" default="0"/>
2281     <xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/>
2282     <xsd:attribute name="bestFit" type="xsd:boolean" use="optional" default="false"/>
2283     <xsd:attribute name="customWidth" type="xsd:boolean" use="optional" default="false"/>
2284     <xsd:attribute name="phonetic" type="xsd:boolean" use="optional" default="false"/>
2285     <xsd:attribute name="outlineLevel" type="xsd:unsignedByte" use="optional" default="0"/>
2286     <xsd:attribute name="collapsed" type="xsd:boolean" use="optional" default="false"/>
2287 </xsd:complexType>
2288 <xsd:simpleType name="ST_CellSpan">
2289     <xsd:restriction base="xsd:string"/>
2290 </xsd:simpleType>
2291 <xsd:simpleType name="ST_CellSpans">
2292     <xsd:list itemType="ST_CellSpan"/>
2293 </xsd:simpleType>
2294 <xsd:complexType name="CT_Row">
2295     <xsd:sequence>
2296         <xsd:element name="c" type="CT_Cell" minOccurs="0" maxOccurs="unbounded"/>
2297         <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>
2298     </xsd:sequence>
2299     <xsd:attribute name="r" type="xsd:unsignedInt" use="optional"/>
2300     <xsd:attribute name="spans" type="ST_CellSpans" use="optional"/>
2301     <xsd:attribute name="s" type="xsd:unsignedInt" use="optional" default="0"/>
2302     <xsd:attribute name="customFormat" type="xsd:boolean" use="optional" default="false"/>
2303     <xsd:attribute name="ht" type="xsd:double" use="optional"/>
2304     <xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/>
2305     <xsd:attribute name="customHeight" type="xsd:boolean" use="optional" default="false"/>
2306     <xsd:attribute name="outlineLevel" type="xsd:unsignedByte" use="optional" default="0"/>
2307     <xsd:attribute name="collapsed" type="xsd:boolean" use="optional" default="false"/>

```

```

2308     <xsd:attribute name="thickTop" type="xsd:boolean" use="optional" default="false"/>
2309     <xsd:attribute name="thickBot" type="xsd:boolean" use="optional" default="false"/>
2310     <xsd:attribute name="ph" type="xsd:boolean" use="optional" default="false"/>
2311 </xsd:complexType>
2312 <xsd:complexType name="CT_Cell">
2313     <xsd:sequence>
2314         <xsd:element name="f" type="CT_CellFormula" minOccurs="0" maxOccurs="1"/>
2315         <xsd:element name="v" type="s:ST_Xstring" minOccurs="0" maxOccurs="1"/>
2316         <xsd:element name="is" type="CT_Rst" minOccurs="0" maxOccurs="1"/>
2317         <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>
2318     </xsd:sequence>
2319     <xsd:attribute name="r" type="ST_CellRef" use="optional"/>
2320     <xsd:attribute name="s" type="xsd:unsignedInt" use="optional" default="0"/>
2321     <xsd:attribute name="t" type="ST_CellType" use="optional" default="n"/>
2322     <xsd:attribute name="cm" type="xsd:unsignedInt" use="optional" default="0"/>
2323     <xsd:attribute name="vm" type="xsd:unsignedInt" use="optional" default="0"/>
2324     <xsd:attribute name="ph" type="xsd:boolean" use="optional" default="false"/>
2325 </xsd:complexType>
2326 <xsd:simpleType name="ST_CellType">
2327     <xsd:restriction base="xsd:string">
2328         <xsd:enumeration value="b"/>
2329         <xsd:enumeration value="d"/>
2330         <xsd:enumeration value="n"/>
2331         <xsd:enumeration value="e"/>
2332         <xsd:enumeration value="s"/>
2333         <xsd:enumeration value="str"/>
2334         <xsd:enumeration value="inlineStr"/>
2335     </xsd:restriction>
2336 </xsd:simpleType>
2337 <xsd:simpleType name="ST_CellFormulaType">
2338     <xsd:restriction base="xsd:string">
2339         <xsd:enumeration value="normal"/>
2340         <xsd:enumeration value="array"/>
2341         <xsd:enumeration value="dataTable"/>
2342         <xsd:enumeration value="shared"/>
2343     </xsd:restriction>
2344 </xsd:simpleType>
2345 <xsd:complexType name="CT_SheetPr">
2346     <xsd:sequence>
2347         <xsd:element name="tabColor" type="CT_Color" minOccurs="0" maxOccurs="1"/>
2348         <xsd:element name="outlinePr" type="CT_OutlinePr" minOccurs="0" maxOccurs="1"/>
2349         <xsd:element name="pageSetUpPr" type="CT_PageSetUpPr" minOccurs="0" maxOccurs="1"/>
2350     </xsd:sequence>
2351     <xsd:attribute name="syncHorizontal" type="xsd:boolean" use="optional" default="false"/>
2352     <xsd:attribute name="syncVertical" type="xsd:boolean" use="optional" default="false"/>
2353     <xsd:attribute name="syncRef" type="ST_Ref" use="optional"/>
2354     <xsd:attribute name="transitionEvaluation" type="xsd:boolean" use="optional" default="false"/>
2355     <xsd:attribute name="transitionEntry" type="xsd:boolean" use="optional" default="false"/>
2356     <xsd:attribute name="published" type="xsd:boolean" use="optional" default="true"/>
2357     <xsd:attribute name="codeName" type="xsd:string" use="optional"/>
2358     <xsd:attribute name="filterMode" type="xsd:boolean" use="optional" default="false"/>
2359     <xsd:attribute name="enableFormatConditionsCalculation" type="xsd:boolean" use="optional"
2360         default="true"/>

```

```

2361 </xsd:complexType>
2362 <xsd:complexType name="CT_SheetDimension">
2363   <xsd:attribute name="ref" type="ST_Ref" use="required"/>
2364 </xsd:complexType>
2365 <xsd:complexType name="CT_SheetViews">
2366   <xsd:sequence>
2367     <xsd:element name="sheetView" type="CT_SheetView" minOccurs="1" maxOccurs="unbounded"/>
2368     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
2369   </xsd:sequence>
2370 </xsd:complexType>
2371 <xsd:complexType name="CT_SheetView">
2372   <xsd:sequence>
2373     <xsd:element name="pane" type="CT_Pane" minOccurs="0" maxOccurs="1"/>
2374     <xsd:element name="selection" type="CT_Selection" minOccurs="0" maxOccurs="4"/>
2375     <xsd:element name="pivotSelection" type="CT_PivotSelection" minOccurs="0" maxOccurs="4"/>
2376     <xsd:element name="extLst" minOccurs="0" maxOccurs="1" type="CT_ExtensionList"/>
2377   </xsd:sequence>
2378   <xsd:attribute name="windowProtection" type="xsd:boolean" use="optional" default="false"/>
2379   <xsd:attribute name="showFormulas" type="xsd:boolean" use="optional" default="false"/>
2380   <xsd:attribute name="showGridLines" type="xsd:boolean" use="optional" default="true"/>
2381   <xsd:attribute name="showRowColHeaders" type="xsd:boolean" use="optional" default="true"/>
2382   <xsd:attribute name="showZeros" type="xsd:boolean" use="optional" default="true"/>
2383   <xsd:attribute name="rightToLeft" type="xsd:boolean" use="optional" default="false"/>
2384   <xsd:attribute name="tabSelected" type="xsd:boolean" use="optional" default="false"/>
2385   <xsd:attribute name="showRuler" type="xsd:boolean" use="optional" default="true"/>
2386   <xsd:attribute name="showOutlineSymbols" type="xsd:boolean" use="optional" default="true"/>
2387   <xsd:attribute name="defaultGridColor" type="xsd:boolean" use="optional" default="true"/>
2388   <xsd:attribute name="showWhiteSpace" type="xsd:boolean" use="optional" default="true"/>
2389   <xsd:attribute name="view" type="ST_SheetViewType" use="optional" default="normal"/>
2390   <xsd:attribute name="topLeftCell" type="ST_CellRef" use="optional"/>
2391   <xsd:attribute name="colorId" type="xsd:unsignedInt" use="optional" default="64"/>
2392   <xsd:attribute name="zoomScale" type="xsd:unsignedInt" use="optional" default="100"/>
2393   <xsd:attribute name="zoomScaleNormal" type="xsd:unsignedInt" use="optional" default="0"/>
2394   <xsd:attribute name="zoomScaleSheetLayoutView" type="xsd:unsignedInt" use="optional"
2395     default="0"/>
2396   <xsd:attribute name="zoomScalePageLayoutView" type="xsd:unsignedInt" use="optional"
2397     default="0"/>
2398   <xsd:attribute name="workbookViewId" type="xsd:unsignedInt" use="required"/>
2399 </xsd:complexType>
2400 <xsd:complexType name="CT_Pane">
2401   <xsd:attribute name="xSplit" type="xsd:double" use="optional" default="0"/>
2402   <xsd:attribute name="ySplit" type="xsd:double" use="optional" default="0"/>
2403   <xsd:attribute name="topLeftCell" type="ST_CellRef" use="optional"/>
2404   <xsd:attribute name="activePane" type="ST_Pane" use="optional" default="topLeft"/>
2405   <xsd:attribute name="state" type="ST_PaneState" use="optional" default="split"/>
2406 </xsd:complexType>
2407 <xsd:complexType name="CT_PivotSelection">
2408   <xsd:sequence>
2409     <xsd:element name="pivotArea" type="CT_PivotArea"/>
2410   </xsd:sequence>
2411   <xsd:attribute name="pane" type="ST_Pane" use="optional" default="topLeft"/>
2412   <xsd:attribute name="showHeader" type="xsd:boolean" default="false"/>
2413   <xsd:attribute name="label" type="xsd:boolean" default="false"/>

```



```

2414 <xsd:attribute name="data" type="xsd:boolean" default="false"/>
2415 <xsd:attribute name="extendable" type="xsd:boolean" default="false"/>
2416 <xsd:attribute name="count" type="xsd:unsignedInt" default="0"/>
2417 <xsd:attribute name="axis" type="ST Axis" use="optional"/>
2418 <xsd:attribute name="dimension" type="xsd:unsignedInt" default="0"/>
2419 <xsd:attribute name="start" type="xsd:unsignedInt" default="0"/>
2420 <xsd:attribute name="min" type="xsd:unsignedInt" default="0"/>
2421 <xsd:attribute name="max" type="xsd:unsignedInt" default="0"/>
2422 <xsd:attribute name="activeRow" type="xsd:unsignedInt" default="0"/>
2423 <xsd:attribute name="activeCol" type="xsd:unsignedInt" default="0"/>
2424 <xsd:attribute name="previousRow" type="xsd:unsignedInt" default="0"/>
2425 <xsd:attribute name="previousCol" type="xsd:unsignedInt" default="0"/>
2426 <xsd:attribute name="click" type="xsd:unsignedInt" default="0"/>
2427 <xsd:attribute ref="r:id" use="optional"/>
2428 </xsd:complexType>
2429 <xsd:complexType name="CT_Selection">
2430 <xsd:attribute name="pane" type="ST Pane" use="optional" default="topLeft"/>
2431 <xsd:attribute name="activeCell" type="ST CellRef" use="optional"/>
2432 <xsd:attribute name="activeCellId" type="xsd:unsignedInt" use="optional" default="0"/>
2433 <xsd:attribute name="sqref" type="ST Sqref" use="optional" default="A1"/>
2434 </xsd:complexType>
2435 <xsd:simpleType name="ST_Pane">
2436 <xsd:restriction base="xsd:string">
2437 <xsd:enumeration value="bottomRight"/>
2438 <xsd:enumeration value="topRight"/>
2439 <xsd:enumeration value="bottomLeft"/>
2440 <xsd:enumeration value="topLeft"/>
2441 </xsd:restriction>
2442 </xsd:simpleType>
2443 <xsd:complexType name="CT_PageBreak">
2444 <xsd:sequence>
2445 <xsd:element name="brk" type="CT Break" minOccurs="0" maxOccurs="unbounded"/>
2446 </xsd:sequence>
2447 <xsd:attribute name="count" type="xsd:unsignedInt" use="optional" default="0"/>
2448 <xsd:attribute name="manualBreakCount" type="xsd:unsignedInt" use="optional" default="0"/>
2449 </xsd:complexType>
2450 <xsd:complexType name="CT_Break">
2451 <xsd:attribute name="id" type="xsd:unsignedInt" use="optional" default="0"/>
2452 <xsd:attribute name="min" type="xsd:unsignedInt" use="optional" default="0"/>
2453 <xsd:attribute name="max" type="xsd:unsignedInt" use="optional" default="0"/>
2454 <xsd:attribute name="man" type="xsd:boolean" use="optional" default="false"/>
2455 <xsd:attribute name="pt" type="xsd:boolean" use="optional" default="false"/>
2456 </xsd:complexType>
2457 <xsd:simpleType name="ST_SheetViewType">
2458 <xsd:restriction base="xsd:string">
2459 <xsd:enumeration value="normal"/>
2460 <xsd:enumeration value="pageBreakPreview"/>
2461 <xsd:enumeration value="pageLayout"/>
2462 </xsd:restriction>
2463 </xsd:simpleType>
2464 <xsd:complexType name="CT_OutlinePr">
2465 <xsd:attribute name="applyStyles" type="xsd:boolean" use="optional" default="false"/>
2466 <xsd:attribute name="summaryBelow" type="xsd:boolean" use="optional" default="true"/>

```

```

2467     <xsd:attribute name="summaryRight" type="xsd:boolean" use="optional" default="true"/>
2468     <xsd:attribute name="showOutlineSymbols" type="xsd:boolean" use="optional" default="true"/>
2469 </xsd:complexType>
2470 <xsd:complexType name="CT_PageSetUpPr">
2471     <xsd:attribute name="autoPageBreaks" type="xsd:boolean" use="optional" default="true"/>
2472     <xsd:attribute name="fitToPage" type="xsd:boolean" use="optional" default="false"/>
2473 </xsd:complexType>
2474 <xsd:complexType name="CT_DataConsolidate">
2475     <xsd:sequence>
2476         <xsd:element name="dataRefs" type="CT_DataRefs" minOccurs="0" maxOccurs="1"/>
2477     </xsd:sequence>
2478     <xsd:attribute name="function" type="ST_DataConsolidateFunction" use="optional"
2479         default="sum"/>
2480     <xsd:attribute name="startLabels" type="xsd:boolean" use="optional" default="false"/>
2481     <xsd:attribute name="leftLabels" type="xsd:boolean" use="optional" default="false"/>
2482     <xsd:attribute name="topLabels" type="xsd:boolean" use="optional" default="false"/>
2483     <xsd:attribute name="link" type="xsd:boolean" use="optional" default="false"/>
2484 </xsd:complexType>
2485 <xsd:simpleType name="ST_DataConsolidateFunction">
2486     <xsd:restriction base="xsd:string">
2487         <xsd:enumeration value="average"/>
2488         <xsd:enumeration value="count"/>
2489         <xsd:enumeration value="countNums"/>
2490         <xsd:enumeration value="max"/>
2491         <xsd:enumeration value="min"/>
2492         <xsd:enumeration value="product"/>
2493         <xsd:enumeration value="stdDev"/>
2494         <xsd:enumeration value="stdDevp"/>
2495         <xsd:enumeration value="sum"/>
2496         <xsd:enumeration value="var"/>
2497         <xsd:enumeration value="varp"/>
2498     </xsd:restriction>
2499 </xsd:simpleType>
2500 <xsd:complexType name="CT_DataRefs">
2501     <xsd:sequence>
2502         <xsd:element name="dataRef" type="CT_DataRef" minOccurs="0" maxOccurs="unbounded"/>
2503     </xsd:sequence>
2504     <xsd:attribute name="count" type="xsd:unsignedInt" use="optional"/>
2505 </xsd:complexType>
2506 <xsd:complexType name="CT_DataRef">
2507     <xsd:attribute name="ref" type="ST_Ref" use="optional"/>
2508     <xsd:attribute name="name" type="s:ST_Xstring" use="optional"/>
2509     <xsd:attribute name="sheet" type="s:ST_Xstring" use="optional"/>
2510     <xsd:attribute ref="r:id" use="optional"/>
2511 </xsd:complexType>
2512 <xsd:complexType name="CT_MergeCells">
2513     <xsd:sequence>
2514         <xsd:element name="mergeCell" type="CT_MergeCell" minOccurs="1" maxOccurs="unbounded"/>
2515     </xsd:sequence>
2516     <xsd:attribute name="count" type="xsd:unsignedInt" use="optional"/>
2517 </xsd:complexType>
2518 <xsd:complexType name="CT_MergeCell">
2519     <xsd:attribute name="ref" type="ST_Ref" use="required"/>

```

```

2520 </xsd:complexType>
2521 <xsd:complexType name="CT_SmartTags">
2522   <xsd:sequence>
2523     <xsd:element name="cellSmartTags" type="CT_CellSmartTags" minOccurs="1"
2524       maxOccurs="unbounded"/>
2525   </xsd:sequence>
2526 </xsd:complexType>
2527 <xsd:complexType name="CT_CellSmartTags">
2528   <xsd:sequence>
2529     <xsd:element name="cellSmartTag" type="CT_CellSmartTag" minOccurs="1"
2530       maxOccurs="unbounded"/>
2531   </xsd:sequence>
2532   <xsd:attribute name="r" type="ST_CellRef" use="required"/>
2533 </xsd:complexType>
2534 <xsd:complexType name="CT_CellSmartTag">
2535   <xsd:sequence>
2536     <xsd:element name="cellSmartTagPr" minOccurs="0" maxOccurs="unbounded"
2537       type="CT_CellSmartTagPr"/>
2538   </xsd:sequence>
2539   <xsd:attribute name="type" type="xsd:unsignedInt" use="required"/>
2540   <xsd:attribute name="deleted" type="xsd:boolean" use="optional" default="false"/>
2541   <xsd:attribute name="xmlBased" type="xsd:boolean" use="optional" default="false"/>
2542 </xsd:complexType>
2543 <xsd:complexType name="CT_CellSmartTagPr">
2544   <xsd:attribute name="key" type="s:ST_Xstring" use="required"/>
2545   <xsd:attribute name="val" type="s:ST_Xstring" use="required"/>
2546 </xsd:complexType>
2547 <xsd:complexType name="CT_Drawing">
2548   <xsd:attribute ref="r:id" use="required"/>
2549 </xsd:complexType>
2550 <xsd:complexType name="CT_LegacyDrawing">
2551   <xsd:attribute ref="r:id" use="required"/>
2552 </xsd:complexType>
2553 <xsd:complexType name="CT_DrawingHF">
2554   <xsd:attribute ref="r:id" use="required"/>
2555   <xsd:attribute name="lho" type="xsd:unsignedInt" use="optional"/>
2556   <xsd:attribute name="lhe" type="xsd:unsignedInt" use="optional"/>
2557   <xsd:attribute name="lhf" type="xsd:unsignedInt" use="optional"/>
2558   <xsd:attribute name="cho" type="xsd:unsignedInt" use="optional"/>
2559   <xsd:attribute name="che" type="xsd:unsignedInt" use="optional"/>
2560   <xsd:attribute name="chf" type="xsd:unsignedInt" use="optional"/>
2561   <xsd:attribute name="rho" type="xsd:unsignedInt" use="optional"/>
2562   <xsd:attribute name="rhe" type="xsd:unsignedInt" use="optional"/>
2563   <xsd:attribute name="rhf" type="xsd:unsignedInt" use="optional"/>
2564   <xsd:attribute name="lfo" type="xsd:unsignedInt" use="optional"/>
2565   <xsd:attribute name="lfe" type="xsd:unsignedInt" use="optional"/>
2566   <xsd:attribute name="lff" type="xsd:unsignedInt" use="optional"/>
2567   <xsd:attribute name="cfo" type="xsd:unsignedInt" use="optional"/>
2568   <xsd:attribute name="cfe" type="xsd:unsignedInt" use="optional"/>
2569   <xsd:attribute name="cff" type="xsd:unsignedInt" use="optional"/>
2570   <xsd:attribute name="rfo" type="xsd:unsignedInt" use="optional"/>
2571   <xsd:attribute name="rfe" type="xsd:unsignedInt" use="optional"/>
2572   <xsd:attribute name="rff" type="xsd:unsignedInt" use="optional"/>

```



```

2573 </xsd:complexType>
2574 <xsd:complexType name="CT_CustomSheetViews">
2575   <xsd:sequence>
2576     <xsd:element name="customSheetView" minOccurs="1" maxOccurs="unbounded"
2577       type="CT_CustomSheetView"/>
2578   </xsd:sequence>
2579 </xsd:complexType>
2580 <xsd:complexType name="CT_CustomSheetView">
2581   <xsd:sequence>
2582     <xsd:element name="pane" type="CT_Pane" minOccurs="0" maxOccurs="1"/>
2583     <xsd:element name="selection" type="CT_Selection" minOccurs="0" maxOccurs="1"/>
2584     <xsd:element name="rowBreaks" type="CT_PageBreak" minOccurs="0" maxOccurs="1"/>
2585     <xsd:element name="colBreaks" type="CT_PageBreak" minOccurs="0" maxOccurs="1"/>
2586     <xsd:element name="pageMargins" type="CT_PageMargins" minOccurs="0" maxOccurs="1"/>
2587     <xsd:element name="printOptions" type="CT_PrintOptions" minOccurs="0" maxOccurs="1"/>
2588     <xsd:element name="pageSetup" type="CT_PageSetup" minOccurs="0" maxOccurs="1"/>
2589     <xsd:element name="headerFooter" type="CT_HeaderFooter" minOccurs="0" maxOccurs="1"/>
2590     <xsd:element name="autoFilter" type="CT_AutoFilter" minOccurs="0" maxOccurs="1"/>
2591     <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>
2592   </xsd:sequence>
2593   <xsd:attribute name="guid" type="s:ST_Guid" use="required"/>
2594   <xsd:attribute name="scale" type="xsd:unsignedInt" default="100"/>
2595   <xsd:attribute name="colorId" type="xsd:unsignedInt" default="64"/>
2596   <xsd:attribute name="showPageBreaks" type="xsd:boolean" use="optional" default="false"/>
2597   <xsd:attribute name="showFormulas" type="xsd:boolean" use="optional" default="false"/>
2598   <xsd:attribute name="showGridLines" type="xsd:boolean" use="optional" default="true"/>
2599   <xsd:attribute name="showRowCol" type="xsd:boolean" use="optional" default="true"/>
2600   <xsd:attribute name="outlineSymbols" type="xsd:boolean" use="optional" default="true"/>
2601   <xsd:attribute name="zeroValues" type="xsd:boolean" use="optional" default="true"/>
2602   <xsd:attribute name="fitToPage" type="xsd:boolean" use="optional" default="false"/>
2603   <xsd:attribute name="printArea" type="xsd:boolean" use="optional" default="false"/>
2604   <xsd:attribute name="filter" type="xsd:boolean" use="optional" default="false"/>
2605   <xsd:attribute name="showAutoFilter" type="xsd:boolean" use="optional" default="false"/>
2606   <xsd:attribute name="hiddenRows" type="xsd:boolean" use="optional" default="false"/>
2607   <xsd:attribute name="hiddenColumns" type="xsd:boolean" use="optional" default="false"/>
2608   <xsd:attribute name="state" type="ST_SheetState" default="visible"/>
2609   <xsd:attribute name="filterUnique" type="xsd:boolean" use="optional" default="false"/>
2610   <xsd:attribute name="view" type="ST_SheetViewType" default="normal"/>
2611   <xsd:attribute name="showRuler" type="xsd:boolean" use="optional" default="true"/>
2612   <xsd:attribute name="topLeftCell" type="ST_CellRef" use="optional"/>
2613 </xsd:complexType>
2614 <xsd:complexType name="CT_DataValidations">
2615   <xsd:sequence>
2616     <xsd:element name="dataValidation" type="CT_DataValidation" minOccurs="1"
2617       maxOccurs="unbounded"/>
2618   </xsd:sequence>
2619   <xsd:attribute name="disablePrompts" type="xsd:boolean" use="optional" default="false"/>
2620   <xsd:attribute name="xWindow" type="xsd:unsignedInt" use="optional"/>
2621   <xsd:attribute name="yWindow" type="xsd:unsignedInt" use="optional"/>
2622   <xsd:attribute name="count" type="xsd:unsignedInt" use="optional"/>
2623 </xsd:complexType>
2624 <xsd:complexType name="CT_DataValidation">
2625   <xsd:sequence>

```

```

2626     <xsd:element name="formula1" type="ST_Formula" minOccurs="0" maxOccurs="1"/>
2627     <xsd:element name="formula2" type="ST_Formula" minOccurs="0" maxOccurs="1"/>
2628 </xsd:sequence>
2629 <xsd:attribute name="type" type="ST_DataValidationType" use="optional" default="none"/>
2630 <xsd:attribute name="errorStyle" type="ST_DataValidationErrorStyle" use="optional"
2631     default="stop"/>
2632 <xsd:attribute name="imeMode" type="ST_DataValidationImeMode" use="optional"
2633     default="noControl"/>
2634 <xsd:attribute name="operator" type="ST_DataValidationOperator" use="optional"
2635     default="between"/>
2636 <xsd:attribute name="allowBlank" type="xsd:boolean" use="optional" default="false"/>
2637 <xsd:attribute name="showDropDown" type="xsd:boolean" use="optional" default="false"/>
2638 <xsd:attribute name="showInputMessage" type="xsd:boolean" use="optional" default="false"/>
2639 <xsd:attribute name="showErrorMessage" type="xsd:boolean" use="optional" default="false"/>
2640 <xsd:attribute name="errorTitle" type="s:ST_Xstring" use="optional"/>
2641 <xsd:attribute name="error" type="s:ST_Xstring" use="optional"/>
2642 <xsd:attribute name="promptTitle" type="s:ST_Xstring" use="optional"/>
2643 <xsd:attribute name="prompt" type="s:ST_Xstring" use="optional"/>
2644 <xsd:attribute name="sqref" type="ST_Sqref" use="required"/>
2645 </xsd:complexType>
2646 <xsd:simpleType name="ST_DataValidationType">
2647     <xsd:restriction base="xsd:string">
2648         <xsd:enumeration value="none"/>
2649         <xsd:enumeration value="whole"/>
2650         <xsd:enumeration value="decimal"/>
2651         <xsd:enumeration value="list"/>
2652         <xsd:enumeration value="date"/>
2653         <xsd:enumeration value="time"/>
2654         <xsd:enumeration value="textLength"/>
2655         <xsd:enumeration value="custom"/>
2656     </xsd:restriction>
2657 </xsd:simpleType>
2658 <xsd:simpleType name="ST_DataValidationOperator">
2659     <xsd:restriction base="xsd:string">
2660         <xsd:enumeration value="between"/>
2661         <xsd:enumeration value="notBetween"/>
2662         <xsd:enumeration value="equal"/>
2663         <xsd:enumeration value="notEqual"/>
2664         <xsd:enumeration value="lessThan"/>
2665         <xsd:enumeration value="lessThanOrEqual"/>
2666         <xsd:enumeration value="greaterThan"/>
2667         <xsd:enumeration value="greaterThanOrEqual"/>
2668     </xsd:restriction>
2669 </xsd:simpleType>
2670 <xsd:simpleType name="ST_DataValidationErrorStyle">
2671     <xsd:restriction base="xsd:string">
2672         <xsd:enumeration value="stop"/>
2673         <xsd:enumeration value="warning"/>
2674         <xsd:enumeration value="information"/>
2675     </xsd:restriction>
2676 </xsd:simpleType>
2677 <xsd:simpleType name="ST_DataValidationImeMode">
2678     <xsd:restriction base="xsd:string">

```

```

2679     <xsd:enumeration value="noControl"/>
2680     <xsd:enumeration value="off"/>
2681     <xsd:enumeration value="on"/>
2682     <xsd:enumeration value="disabled"/>
2683     <xsd:enumeration value="hiragana"/>
2684     <xsd:enumeration value="fullKatakana"/>
2685     <xsd:enumeration value="halfKatakana"/>
2686     <xsd:enumeration value="fullAlpha"/>
2687     <xsd:enumeration value="halfAlpha"/>
2688     <xsd:enumeration value="fullHangul"/>
2689     <xsd:enumeration value="halfHangul"/>
2690   </xsd:restriction>
2691 </xsd:simpleType>
2692 <xsd:simpleType name="ST_CfType">
2693   <xsd:restriction base="xsd:string">
2694     <xsd:enumeration value="expression"/>
2695     <xsd:enumeration value="cellIs"/>
2696     <xsd:enumeration value="colorScale"/>
2697     <xsd:enumeration value="dataBar"/>
2698     <xsd:enumeration value="iconSet"/>
2699     <xsd:enumeration value="top10"/>
2700     <xsd:enumeration value="uniqueValues"/>
2701     <xsd:enumeration value="duplicateValues"/>
2702     <xsd:enumeration value="containsText"/>
2703     <xsd:enumeration value="notContainsText"/>
2704     <xsd:enumeration value="beginsWith"/>
2705     <xsd:enumeration value="endsWith"/>
2706     <xsd:enumeration value="containsBlanks"/>
2707     <xsd:enumeration value="notContainsBlanks"/>
2708     <xsd:enumeration value="containsErrors"/>
2709     <xsd:enumeration value="notContainsErrors"/>
2710     <xsd:enumeration value="timePeriod"/>
2711     <xsd:enumeration value="aboveAverage"/>
2712   </xsd:restriction>
2713 </xsd:simpleType>
2714 <xsd:simpleType name="ST_TimePeriod">
2715   <xsd:restriction base="xsd:string">
2716     <xsd:enumeration value="today"/>
2717     <xsd:enumeration value="yesterday"/>
2718     <xsd:enumeration value="tomorrow"/>
2719     <xsd:enumeration value="last7Days"/>
2720     <xsd:enumeration value="thisMonth"/>
2721     <xsd:enumeration value="lastMonth"/>
2722     <xsd:enumeration value="nextMonth"/>
2723     <xsd:enumeration value="thisWeek"/>
2724     <xsd:enumeration value="lastWeek"/>
2725     <xsd:enumeration value="nextWeek"/>
2726   </xsd:restriction>
2727 </xsd:simpleType>
2728 <xsd:simpleType name="ST_ConditionalFormattingOperator">
2729   <xsd:restriction base="xsd:string">
2730     <xsd:enumeration value="lessThan"/>
2731     <xsd:enumeration value="lessThanOrEqual"/>

```

```

2732     <xsd:enumeration value="equal"/>
2733     <xsd:enumeration value="notEqual"/>
2734     <xsd:enumeration value="greaterThanOrEqual"/>
2735     <xsd:enumeration value="greaterThan"/>
2736     <xsd:enumeration value="between"/>
2737     <xsd:enumeration value="notBetween"/>
2738     <xsd:enumeration value="containsText"/>
2739     <xsd:enumeration value="notContains"/>
2740     <xsd:enumeration value="beginsWith"/>
2741     <xsd:enumeration value="endsWith"/>
2742   </xsd:restriction>
2743 </xsd:simpleType>
2744 <xsd:simpleType name="ST_CfvoType">
2745   <xsd:restriction base="xsd:string">
2746     <xsd:enumeration value="num"/>
2747     <xsd:enumeration value="percent"/>
2748     <xsd:enumeration value="max"/>
2749     <xsd:enumeration value="min"/>
2750     <xsd:enumeration value="formula"/>
2751     <xsd:enumeration value="percentile"/>
2752   </xsd:restriction>
2753 </xsd:simpleType>
2754 <xsd:complexType name="CT_ConditionalFormatting">
2755   <xsd:sequence>
2756     <xsd:element name="cfRule" type="CT_CfRule" minOccurs="1" maxOccurs="unbounded"/>
2757     <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>
2758   </xsd:sequence>
2759   <xsd:attribute name="pivot" type="xsd:boolean" default="false"/>
2760   <xsd:attribute name="sqref" type="ST_Sqref"/>
2761 </xsd:complexType>
2762 <xsd:complexType name="CT_CfRule">
2763   <xsd:sequence>
2764     <xsd:element name="formula" type="ST_Formula" minOccurs="0" maxOccurs="3"/>
2765     <xsd:element name="colorScale" type="CT_ColorScale" minOccurs="0" maxOccurs="1"/>
2766     <xsd:element name="dataBar" type="CT_DataBar" minOccurs="0" maxOccurs="1"/>
2767     <xsd:element name="iconSet" type="CT_IconSet" minOccurs="0" maxOccurs="1"/>
2768     <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>
2769   </xsd:sequence>
2770   <xsd:attribute name="type" type="ST_CfType"/>
2771   <xsd:attribute name="dxfId" type="ST_DxfId" use="optional"/>
2772   <xsd:attribute name="priority" type="xsd:int" use="required"/>
2773   <xsd:attribute name="stopIfTrue" type="xsd:boolean" use="optional" default="false"/>
2774   <xsd:attribute name="aboveAverage" type="xsd:boolean" use="optional" default="true"/>
2775   <xsd:attribute name="percent" type="xsd:boolean" use="optional" default="false"/>
2776   <xsd:attribute name="bottom" type="xsd:boolean" use="optional" default="false"/>
2777   <xsd:attribute name="operator" type="ST_ConditionalFormattingOperator" use="optional"/>
2778   <xsd:attribute name="text" type="xsd:string" use="optional"/>
2779   <xsd:attribute name="timePeriod" type="ST_TimePeriod" use="optional"/>
2780   <xsd:attribute name="rank" type="xsd:unsignedInt" use="optional"/>
2781   <xsd:attribute name="stdDev" type="xsd:int" use="optional"/>
2782   <xsd:attribute name="equalAverage" type="xsd:boolean" use="optional" default="false"/>
2783 </xsd:complexType>
2784 <xsd:complexType name="CT_Hyperlinks">

```

```

2785     <xsd:sequence>
2786       <xsd:element name="hyperlink" type="CT_Hyperlink" minOccurs="1" maxOccurs="unbounded"/>
2787     </xsd:sequence>
2788   </xsd:complexType>
2789   <xsd:complexType name="CT_Hyperlink">
2790     <xsd:attribute name="ref" type="ST_Ref" use="required"/>
2791     <xsd:attribute ref="r:id" use="optional"/>
2792     <xsd:attribute name="location" type="s:ST_Xstring" use="optional"/>
2793     <xsd:attribute name="tooltip" type="s:ST_Xstring" use="optional"/>
2794     <xsd:attribute name="display" type="s:ST_Xstring" use="optional"/>
2795   </xsd:complexType>
2796   <xsd:complexType name="CT_CellFormula">
2797     <xsd:simpleContent>
2798       <xsd:extension base="ST_Formula">
2799         <xsd:attribute name="t" type="ST_CellFormulaType" use="optional" default="normal"/>
2800         <xsd:attribute name="aca" type="xsd:boolean" use="optional" default="false"/>
2801         <xsd:attribute name="ref" type="ST_Ref" use="optional"/>
2802         <xsd:attribute name="dt2D" type="xsd:boolean" use="optional" default="false"/>
2803         <xsd:attribute name="dtr" type="xsd:boolean" use="optional" default="false"/>
2804         <xsd:attribute name="del1" type="xsd:boolean" use="optional" default="false"/>
2805         <xsd:attribute name="del2" type="xsd:boolean" use="optional" default="false"/>
2806         <xsd:attribute name="r1" type="ST_CellRef" use="optional"/>
2807         <xsd:attribute name="r2" type="ST_CellRef" use="optional"/>
2808         <xsd:attribute name="ca" type="xsd:boolean" use="optional" default="false"/>
2809         <xsd:attribute name="si" type="xsd:unsignedInt" use="optional"/>
2810         <xsd:attribute name="bx" type="xsd:boolean" use="optional" default="false"/>
2811       </xsd:extension>
2812     </xsd:simpleContent>
2813   </xsd:complexType>
2814   <xsd:complexType name="CT_ColorScale">
2815     <xsd:sequence>
2816       <xsd:element name="cfvo" type="CT_Cfvo" minOccurs="2" maxOccurs="unbounded"/>
2817       <xsd:element name="color" type="CT_Color" minOccurs="2" maxOccurs="unbounded"/>
2818     </xsd:sequence>
2819   </xsd:complexType>
2820   <xsd:complexType name="CT_DataBar">
2821     <xsd:sequence>
2822       <xsd:element name="cfvo" type="CT_Cfvo" minOccurs="2" maxOccurs="2"/>
2823       <xsd:element name="color" type="CT_Color" minOccurs="1" maxOccurs="1"/>
2824     </xsd:sequence>
2825     <xsd:attribute name="minLength" type="xsd:unsignedInt" use="optional" default="10"/>
2826     <xsd:attribute name="maxLength" type="xsd:unsignedInt" use="optional" default="90"/>
2827     <xsd:attribute name="showValue" type="xsd:boolean" use="optional" default="true"/>
2828   </xsd:complexType>
2829   <xsd:complexType name="CT_IconSet">
2830     <xsd:sequence>
2831       <xsd:element name="cfvo" type="CT_Cfvo" minOccurs="2" maxOccurs="unbounded"/>
2832     </xsd:sequence>
2833     <xsd:attribute name="iconSet" type="ST_IconSetType" use="optional" default="3TrafficLights1"/>
2834     <xsd:attribute name="showValue" type="xsd:boolean" use="optional" default="true"/>
2835     <xsd:attribute name="percent" type="xsd:boolean" default="true"/>
2836     <xsd:attribute name="reverse" type="xsd:boolean" use="optional" default="false"/>
2837   </xsd:complexType>

```

```

2838 <xsd:complexType name="CT_Cfvo">
2839   <xsd:sequence>
2840     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
2841   </xsd:sequence>
2842   <xsd:attribute name="type" type="ST_CfvoType" use="required"/>
2843   <xsd:attribute name="val" type="s:ST_Xstring" use="optional"/>
2844   <xsd:attribute name="gte" type="xsd:boolean" use="optional" default="true"/>
2845 </xsd:complexType>
2846 <xsd:complexType name="CT_PageMargins">
2847   <xsd:attribute name="left" type="xsd:double" use="required"/>
2848   <xsd:attribute name="right" type="xsd:double" use="required"/>
2849   <xsd:attribute name="top" type="xsd:double" use="required"/>
2850   <xsd:attribute name="bottom" type="xsd:double" use="required"/>
2851   <xsd:attribute name="header" type="xsd:double" use="required"/>
2852   <xsd:attribute name="footer" type="xsd:double" use="required"/>
2853 </xsd:complexType>
2854 <xsd:complexType name="CT_PrintOptions">
2855   <xsd:attribute name="horizontalCentered" type="xsd:boolean" use="optional" default="false"/>
2856   <xsd:attribute name="verticalCentered" type="xsd:boolean" use="optional" default="false"/>
2857   <xsd:attribute name="headings" type="xsd:boolean" use="optional" default="false"/>
2858   <xsd:attribute name="gridLines" type="xsd:boolean" use="optional" default="false"/>
2859   <xsd:attribute name="gridLinesSet" type="xsd:boolean" use="optional" default="true"/>
2860 </xsd:complexType>
2861 <xsd:complexType name="CT_PageSetup">
2862   <xsd:attribute name="paperSize" type="xsd:unsignedInt" use="optional" default="1"/>
2863   <xsd:attribute name="paperHeight" type="s:ST_PositiveUniversalMeasure" use="optional"/>
2864   <xsd:attribute name="paperWidth" type="s:ST_PositiveUniversalMeasure" use="optional"/>
2865   <xsd:attribute name="scale" type="xsd:unsignedInt" use="optional" default="100"/>
2866   <xsd:attribute name="firstPageNumber" type="xsd:unsignedInt" use="optional" default="1"/>
2867   <xsd:attribute name="fitToWidth" type="xsd:unsignedInt" use="optional" default="1"/>
2868   <xsd:attribute name="fitToHeight" type="xsd:unsignedInt" use="optional" default="1"/>
2869   <xsd:attribute name="pageOrder" type="ST_PageOrder" use="optional" default="downThenOver"/>
2870   <xsd:attribute name="orientation" type="ST_Orientation" use="optional" default="default"/>
2871   <xsd:attribute name="usePrinterDefaults" type="xsd:boolean" use="optional" default="true"/>
2872   <xsd:attribute name="blackAndWhite" type="xsd:boolean" use="optional" default="false"/>
2873   <xsd:attribute name="draft" type="xsd:boolean" use="optional" default="false"/>
2874   <xsd:attribute name="cellComments" type="ST_CellComments" use="optional" default="none"/>
2875   <xsd:attribute name="useFirstPageNumber" type="xsd:boolean" use="optional" default="false"/>
2876   <xsd:attribute name="errors" type="ST_PrintError" use="optional" default="displayed"/>
2877   <xsd:attribute name="horizontalDpi" type="xsd:unsignedInt" use="optional" default="600"/>
2878   <xsd:attribute name="verticalDpi" type="xsd:unsignedInt" use="optional" default="600"/>
2879   <xsd:attribute name="copies" type="xsd:unsignedInt" use="optional" default="1"/>
2880   <xsd:attribute ref="r:id" use="optional"/>
2881 </xsd:complexType>
2882 <xsd:simpleType name="ST_PageOrder">
2883   <xsd:restriction base="xsd:string">
2884     <xsd:enumeration value="downThenOver"/>
2885     <xsd:enumeration value="overThenDown"/>
2886   </xsd:restriction>
2887 </xsd:simpleType>
2888 <xsd:simpleType name="ST_Orientation">
2889   <xsd:restriction base="xsd:string">
2890     <xsd:enumeration value="default"/>

```



```

2891     <xsd:enumeration value="portrait"/>
2892     <xsd:enumeration value="landscape"/>
2893   </xsd:restriction>
2894 </xsd:simpleType>
2895 <xsd:simpleType name="ST_CellComments">
2896   <xsd:restriction base="xsd:string">
2897     <xsd:enumeration value="none"/>
2898     <xsd:enumeration value="asDisplayed"/>
2899     <xsd:enumeration value="atEnd"/>
2900   </xsd:restriction>
2901 </xsd:simpleType>
2902 <xsd:complexType name="CT_HeaderFooter">
2903   <xsd:sequence>
2904     <xsd:element name="oddHeader" type="s:ST_Xstring" minOccurs="0" maxOccurs="1"/>
2905     <xsd:element name="oddFooter" type="s:ST_Xstring" minOccurs="0" maxOccurs="1"/>
2906     <xsd:element name="evenHeader" type="s:ST_Xstring" minOccurs="0" maxOccurs="1"/>
2907     <xsd:element name="evenFooter" type="s:ST_Xstring" minOccurs="0" maxOccurs="1"/>
2908     <xsd:element name="firstHeader" type="s:ST_Xstring" minOccurs="0" maxOccurs="1"/>
2909     <xsd:element name="firstFooter" type="s:ST_Xstring" minOccurs="0" maxOccurs="1"/>
2910   </xsd:sequence>
2911   <xsd:attribute name="differentOddEven" type="xsd:boolean" default="false"/>
2912   <xsd:attribute name="differentFirst" type="xsd:boolean" default="false"/>
2913   <xsd:attribute name="scaleWithDoc" type="xsd:boolean" default="true"/>
2914   <xsd:attribute name="alignWithMargins" type="xsd:boolean" default="true"/>
2915 </xsd:complexType>
2916 <xsd:simpleType name="ST_PrintError">
2917   <xsd:restriction base="xsd:string">
2918     <xsd:enumeration value="displayed"/>
2919     <xsd:enumeration value="blank"/>
2920     <xsd:enumeration value="dash"/>
2921     <xsd:enumeration value="NA"/>
2922   </xsd:restriction>
2923 </xsd:simpleType>
2924 <xsd:complexType name="CT_Scenarios">
2925   <xsd:sequence>
2926     <xsd:element name="scenario" type="CT_Scenario" minOccurs="1" maxOccurs="unbounded"/>
2927   </xsd:sequence>
2928   <xsd:attribute name="current" type="xsd:unsignedInt" use="optional"/>
2929   <xsd:attribute name="show" type="xsd:unsignedInt" use="optional"/>
2930   <xsd:attribute name="sqref" type="ST_Sqref" use="optional"/>
2931 </xsd:complexType>
2932 <xsd:complexType name="CT_SheetProtection">
2933   <xsd:attribute name="password" type="ST_UnsignedShortHex" use="optional"/>
2934   <xsd:attribute name="algorithmName" type="s:ST_Xstring" use="optional"/>
2935   <xsd:attribute name="hashValue" type="xsd:base64Binary" use="optional"/>
2936   <xsd:attribute name="saltValue" type="xsd:base64Binary" use="optional"/>
2937   <xsd:attribute name="spinCount" type="xsd:unsignedInt" use="optional"/>
2938   <xsd:attribute name="sheet" type="xsd:boolean" use="optional" default="false"/>
2939   <xsd:attribute name="objects" type="xsd:boolean" use="optional" default="false"/>
2940   <xsd:attribute name="scenarios" type="xsd:boolean" use="optional" default="false"/>
2941   <xsd:attribute name="formatCells" type="xsd:boolean" use="optional" default="true"/>
2942   <xsd:attribute name="formatColumns" type="xsd:boolean" use="optional" default="true"/>
2943   <xsd:attribute name="formatRows" type="xsd:boolean" use="optional" default="true"/>

```

```

2944 <xsd:attribute name="insertColumns" type="xsd:boolean" use="optional" default="true"/>
2945 <xsd:attribute name="insertRows" type="xsd:boolean" use="optional" default="true"/>
2946 <xsd:attribute name="insertHyperlinks" type="xsd:boolean" use="optional" default="true"/>
2947 <xsd:attribute name="deleteColumns" type="xsd:boolean" use="optional" default="true"/>
2948 <xsd:attribute name="deleteRows" type="xsd:boolean" use="optional" default="true"/>
2949 <xsd:attribute name="selectLockedCells" type="xsd:boolean" use="optional" default="false"/>
2950 <xsd:attribute name="sort" type="xsd:boolean" use="optional" default="true"/>
2951 <xsd:attribute name="autoFilter" type="xsd:boolean" use="optional" default="true"/>
2952 <xsd:attribute name="pivotTables" type="xsd:boolean" use="optional" default="true"/>
2953 <xsd:attribute name="selectUnlockedCells" type="xsd:boolean" use="optional" default="false"/>
2954 </xsd:complexType>
2955 <xsd:complexType name="CT_ProtectedRanges">
2956 <xsd:sequence>
2957 <xsd:element name="protectedRange" type="CT_ProtectedRange" minOccurs="1"
2958 maxOccurs="unbounded"/>
2959 </xsd:sequence>
2960 </xsd:complexType>
2961 <xsd:complexType name="CT_ProtectedRange">
2962 <xsd:sequence>
2963 <xsd:element name="securityDescriptor" type="xsd:string" minOccurs="0"
2964 maxOccurs="unbounded"/>
2965 </xsd:sequence>
2966 <xsd:attribute name="password" type="ST_UnsignedShortHex" use="optional"/>
2967 <xsd:attribute name="sqref" type="ST_Sqref" use="required"/>
2968 <xsd:attribute name="name" type="s:ST_Xstring" use="required"/>
2969 <xsd:attribute name="securityDescriptor" type="xsd:string" use="optional"/>
2970 <xsd:attribute name="algorithmName" type="s:ST_Xstring" use="optional"/>
2971 <xsd:attribute name="hashValue" type="xsd:base64Binary" use="optional"/>
2972 <xsd:attribute name="saltValue" type="xsd:base64Binary" use="optional"/>
2973 <xsd:attribute name="spinCount" type="xsd:unsignedInt" use="optional"/>
2974 </xsd:complexType>
2975 <xsd:complexType name="CT_Scenario">
2976 <xsd:sequence>
2977 <xsd:element name="inputCells" type="CT_InputCells" minOccurs="1" maxOccurs="unbounded"/>
2978 </xsd:sequence>
2979 <xsd:attribute name="name" type="s:ST_Xstring" use="required"/>
2980 <xsd:attribute name="locked" type="xsd:boolean" use="optional" default="false"/>
2981 <xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/>
2982 <xsd:attribute name="count" type="xsd:unsignedInt" use="optional"/>
2983 <xsd:attribute name="user" type="s:ST_Xstring" use="optional"/>
2984 <xsd:attribute name="comment" type="s:ST_Xstring" use="optional"/>
2985 </xsd:complexType>
2986 <xsd:complexType name="CT_InputCells">
2987 <xsd:attribute name="r" type="ST_CellRef" use="required"/>
2988 <xsd:attribute name="deleted" type="xsd:boolean" use="optional" default="false"/>
2989 <xsd:attribute name="undone" type="xsd:boolean" use="optional" default="false"/>
2990 <xsd:attribute name="val" type="s:ST_Xstring" use="required"/>
2991 <xsd:attribute name="numFmtId" type="ST_NumFmtId" use="optional"/>
2992 </xsd:complexType>
2993 <xsd:complexType name="CT_CellWatches">
2994 <xsd:sequence>
2995 <xsd:element name="cellWatch" type="CT_CellWatch" minOccurs="1" maxOccurs="unbounded"/>
2996 </xsd:sequence>

```



```

2997 </xsd:complexType>
2998 <xsd:complexType name="CT_CellWatch">
2999   <xsd:attribute name="r" type="ST_CellRef" use="required"/>
3000 </xsd:complexType>
3001 <xsd:complexType name="CT_Chartsheet">
3002   <xsd:sequence>
3003     <xsd:element name="sheetPr" type="CT_ChartsheetPr" minOccurs="0" maxOccurs="1"/>
3004     <xsd:element name="sheetViews" type="CT_ChartsheetViews" minOccurs="1" maxOccurs="1"/>
3005     <xsd:element name="sheetProtection" type="CT_ChartsheetProtection" minOccurs="0"
3006       maxOccurs="1"/>
3007     <xsd:element name="customSheetViews" type="CT_CustomChartsheetViews" minOccurs="0"
3008       maxOccurs="1"/>
3009     <xsd:element name="pageMargins" minOccurs="0" type="CT_PageMargins"/>
3010     <xsd:element name="pageSetup" type="CT_CsPageSetup" minOccurs="0" maxOccurs="1"/>
3011     <xsd:element name="headerFooter" minOccurs="0" type="CT_HeaderFooter"/>
3012     <xsd:element name="drawing" type="CT_Drawing" minOccurs="1" maxOccurs="1"/>
3013     <xsd:element name="legacyDrawing" type="CT_LegacyDrawing" minOccurs="0" maxOccurs="1"/>
3014     <xsd:element name="legacyDrawingHF" type="CT_LegacyDrawing" minOccurs="0" maxOccurs="1"/>
3015     <xsd:element name="drawingHF" type="CT_DrawingHF" minOccurs="0" maxOccurs="1"/>
3016     <xsd:element name="picture" type="CT_SheetBackgroundPicture" minOccurs="0" maxOccurs="1"/>
3017     <xsd:element name="webPublishItems" type="CT_WebPublishItems" minOccurs="0"
3018       maxOccurs="1"/>
3019     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
3020   </xsd:sequence>
3021 </xsd:complexType>
3022 <xsd:complexType name="CT_ChartsheetPr">
3023   <xsd:sequence>
3024     <xsd:element name="tabColor" type="CT_Color" minOccurs="0" maxOccurs="1"/>
3025   </xsd:sequence>
3026   <xsd:attribute name="published" type="xsd:boolean" use="optional" default="true"/>
3027   <xsd:attribute name="codeName" type="xsd:string" use="optional"/>
3028 </xsd:complexType>
3029 <xsd:complexType name="CT_ChartsheetViews">
3030   <xsd:sequence>
3031     <xsd:element name="sheetView" type="CT_ChartsheetView" minOccurs="1"
3032       maxOccurs="unbounded"/>
3033     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
3034   </xsd:sequence>
3035 </xsd:complexType>
3036 <xsd:complexType name="CT_ChartsheetView">
3037   <xsd:sequence>
3038     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
3039   </xsd:sequence>
3040   <xsd:attribute name="tabSelected" type="xsd:boolean" use="optional" default="false"/>
3041   <xsd:attribute name="zoomScale" type="xsd:unsignedInt" default="100" use="optional"/>
3042   <xsd:attribute name="workbookViewId" type="xsd:unsignedInt" use="required"/>
3043   <xsd:attribute name="zoomToFit" type="xsd:boolean" use="optional" default="false"/>
3044 </xsd:complexType>
3045 <xsd:complexType name="CT_ChartsheetProtection">
3046   <xsd:attribute name="password" type="ST_UnsignedShortHex" use="optional"/>
3047   <xsd:attribute name="algorithmName" type="s:ST_Xstring" use="optional"/>
3048   <xsd:attribute name="hashValue" type="xsd:base64Binary" use="optional"/>
3049   <xsd:attribute name="saltValue" type="xsd:base64Binary" use="optional"/>

```

```

3050     <xsd:attribute name="spinCount" type="xsd:unsignedInt" use="optional"/>
3051     <xsd:attribute name="content" type="xsd:boolean" use="optional" default="false"/>
3052     <xsd:attribute name="objects" type="xsd:boolean" use="optional" default="false"/>
3053 </xsd:complexType>
3054 <xsd:complexType name="CT_CsPageSetup">
3055     <xsd:attribute name="paperSize" type="xsd:unsignedInt" use="optional" default="1"/>
3056     <xsd:attribute name="paperHeight" type="s:ST_PositiveUniversalMeasure" use="optional"/>
3057     <xsd:attribute name="paperWidth" type="s:ST_PositiveUniversalMeasure" use="optional"/>
3058     <xsd:attribute name="firstPageNumber" type="xsd:unsignedInt" use="optional" default="1"/>
3059     <xsd:attribute name="orientation" type="ST_Orientation" use="optional" default="default"/>
3060     <xsd:attribute name="usePrinterDefaults" type="xsd:boolean" use="optional" default="true"/>
3061     <xsd:attribute name="blackAndWhite" type="xsd:boolean" use="optional" default="false"/>
3062     <xsd:attribute name="draft" type="xsd:boolean" use="optional" default="false"/>
3063     <xsd:attribute name="useFirstPageNumber" type="xsd:boolean" use="optional" default="false"/>
3064     <xsd:attribute name="horizontalDpi" type="xsd:unsignedInt" use="optional" default="600"/>
3065     <xsd:attribute name="verticalDpi" type="xsd:unsignedInt" use="optional" default="600"/>
3066     <xsd:attribute name="copies" type="xsd:unsignedInt" use="optional" default="1"/>
3067     <xsd:attribute ref="r:id" use="optional"/>
3068 </xsd:complexType>
3069 <xsd:complexType name="CT_CustomChartsheetViews">
3070     <xsd:sequence>
3071         <xsd:element name="customSheetView" minOccurs="0" maxOccurs="unbounded"
3072             type="CT_CustomChartsheetView"/>
3073     </xsd:sequence>
3074 </xsd:complexType>
3075 <xsd:complexType name="CT_CustomChartsheetView">
3076     <xsd:sequence>
3077         <xsd:element name="pageMargins" type="CT_PageMargins" minOccurs="0" maxOccurs="1"/>
3078         <xsd:element name="pageSetup" type="CT_CsPageSetup" minOccurs="0" maxOccurs="1"/>
3079         <xsd:element name="headerFooter" type="CT_HeaderFooter" minOccurs="0" maxOccurs="1"/>
3080     </xsd:sequence>
3081     <xsd:attribute name="guid" type="s:ST_Guid" use="required"/>
3082     <xsd:attribute name="scale" type="xsd:unsignedInt" default="100"/>
3083     <xsd:attribute name="state" type="ST_SheetState" default="visible"/>
3084     <xsd:attribute name="zoomToFit" type="xsd:boolean" use="optional" default="false"/>
3085 </xsd:complexType>
3086 <xsd:complexType name="CT_CustomProperties">
3087     <xsd:sequence>
3088         <xsd:element name="customPr" type="CT_CustomProperty" minOccurs="1"
3089             maxOccurs="unbounded"/>
3090     </xsd:sequence>
3091 </xsd:complexType>
3092 <xsd:complexType name="CT_CustomProperty">
3093     <xsd:attribute name="name" type="s:ST_Xstring" use="required"/>
3094     <xsd:attribute ref="r:id" use="required"/>
3095 </xsd:complexType>
3096 <xsd:complexType name="CT_OleObjects">
3097     <xsd:sequence>
3098         <xsd:element name="oleObject" type="CT_OleObject" minOccurs="1" maxOccurs="unbounded"/>
3099     </xsd:sequence>
3100 </xsd:complexType>
3101 <xsd:complexType name="CT_OleObject">
3102     <xsd:sequence>

```

```

3103     <xsd:element name="objectPr" type="CT_ObjectPr" minOccurs="0" maxOccurs="1"/>
3104 </xsd:sequence>
3105 <xsd:attribute name="progId" type="xsd:string" use="optional"/>
3106 <xsd:attribute name="dvAspect" type="ST_DvAspect" use="optional" default="DVASPECT_CONTENT"/>
3107 <xsd:attribute name="link" type="s:ST_Xstring" use="optional"/>
3108 <xsd:attribute name="oleUpdate" type="ST_OleUpdate" use="optional"/>
3109 <xsd:attribute name="autoLoad" type="xsd:boolean" use="optional" default="false"/>
3110 <xsd:attribute name="shapeId" type="xsd:unsignedInt" use="required"/>
3111 <xsd:attribute ref="r:id" use="optional"/>
3112 </xsd:complexType>
3113 <xsd:complexType name="CT_ObjectPr">
3114     <xsd:sequence>
3115         <xsd:element name="anchor" type="CT_ObjectAnchor" minOccurs="1" maxOccurs="1"/>
3116     </xsd:sequence>
3117     <xsd:attribute name="locked" type="xsd:boolean" use="optional" default="true"/>
3118     <xsd:attribute name="defaultSize" type="xsd:boolean" use="optional" default="true"/>
3119     <xsd:attribute name="print" type="xsd:boolean" use="optional" default="true"/>
3120     <xsd:attribute name="disabled" type="xsd:boolean" use="optional" default="false"/>
3121     <xsd:attribute name="uiObject" type="xsd:boolean" use="optional" default="false"/>
3122     <xsd:attribute name="autoFill" type="xsd:boolean" use="optional" default="true"/>
3123     <xsd:attribute name="autoLine" type="xsd:boolean" use="optional" default="true"/>
3124     <xsd:attribute name="autoPict" type="xsd:boolean" use="optional" default="true"/>
3125     <xsd:attribute name="macro" type="ST_Formula" use="optional"/>
3126     <xsd:attribute name="altText" type="s:ST_Xstring" use="optional"/>
3127     <xsd:attribute name="dde" type="xsd:boolean" use="optional" default="false"/>
3128     <xsd:attribute ref="r:id" use="optional"/>
3129 </xsd:complexType>
3130 <xsd:simpleType name="ST_DvAspect">
3131     <xsd:restriction base="xsd:string">
3132         <xsd:enumeration value="DVASPECT_CONTENT"/>
3133         <xsd:enumeration value="DVASPECT_ICON"/>
3134     </xsd:restriction>
3135 </xsd:simpleType>
3136 <xsd:simpleType name="ST_OleUpdate">
3137     <xsd:restriction base="xsd:string">
3138         <xsd:enumeration value="OLEUPDATE_ALWAYS"/>
3139         <xsd:enumeration value="OLEUPDATE_ONCALL"/>
3140     </xsd:restriction>
3141 </xsd:simpleType>
3142 <xsd:complexType name="CT_WebPublishItems">
3143     <xsd:sequence>
3144         <xsd:element name="webPublishItem" type="CT_WebPublishItem" minOccurs="1"
3145             maxOccurs="unbounded"/>
3146     </xsd:sequence>
3147     <xsd:attribute name="count" type="xsd:unsignedInt" use="optional"/>
3148 </xsd:complexType>
3149 <xsd:complexType name="CT_WebPublishItem">
3150     <xsd:attribute name="id" type="xsd:unsignedInt" use="required"/>
3151     <xsd:attribute name="divId" type="s:ST_Xstring" use="required"/>
3152     <xsd:attribute name="sourceType" type="ST_WebSourceType" use="required"/>
3153     <xsd:attribute name="sourceRef" type="ST_Ref" use="optional"/>
3154     <xsd:attribute name="sourceObject" type="s:ST_Xstring" use="optional"/>
3155     <xsd:attribute name="destinationFile" type="s:ST_Xstring" use="required"/>

```

```

3156     <xsd:attribute name="title" type="s:ST Xstring" use="optional"/>
3157     <xsd:attribute name="autoRepublish" type="xsd:boolean" use="optional" default="false"/>
3158 </xsd:complexType>
3159 <xsd:complexType name="CT_Controls">
3160     <xsd:sequence>
3161         <xsd:element name="control" type="CT_Control" minOccurs="1" maxOccurs="unbounded"/>
3162     </xsd:sequence>
3163 </xsd:complexType>
3164 <xsd:complexType name="CT_Control">
3165     <xsd:sequence>
3166         <xsd:element name="controlPr" type="CT_ControlPr" minOccurs="0" maxOccurs="1"/>
3167     </xsd:sequence>
3168     <xsd:attribute name="shapeId" type="xsd:unsignedInt" use="required"/>
3169     <xsd:attribute ref="r:id" use="required"/>
3170     <xsd:attribute name="name" type="xsd:string" use="optional"/>
3171 </xsd:complexType>
3172 <xsd:complexType name="CT_ControlPr">
3173     <xsd:sequence>
3174         <xsd:element name="anchor" type="CT_ObjectAnchor" minOccurs="1" maxOccurs="1"/>
3175     </xsd:sequence>
3176     <xsd:attribute name="locked" type="xsd:boolean" use="optional" default="true"/>
3177     <xsd:attribute name="defaultSize" type="xsd:boolean" use="optional" default="true"/>
3178     <xsd:attribute name="print" type="xsd:boolean" use="optional" default="true"/>
3179     <xsd:attribute name="disabled" type="xsd:boolean" use="optional" default="false"/>
3180     <xsd:attribute name="recalcAlways" type="xsd:boolean" use="optional" default="false"/>
3181     <xsd:attribute name="uiObject" type="xsd:boolean" use="optional" default="false"/>
3182     <xsd:attribute name="autoFill" type="xsd:boolean" use="optional" default="true"/>
3183     <xsd:attribute name="autoLine" type="xsd:boolean" use="optional" default="true"/>
3184     <xsd:attribute name="autoPict" type="xsd:boolean" use="optional" default="true"/>
3185     <xsd:attribute name="macro" type="ST_Formula" use="optional"/>
3186     <xsd:attribute name="altText" type="s:ST Xstring" use="optional"/>
3187     <xsd:attribute name="linkedCell" type="ST_Formula" use="optional"/>
3188     <xsd:attribute name="listFillRange" type="ST_Formula" use="optional"/>
3189     <xsd:attribute name="cf" type="s:ST Xstring" use="optional" default="pict"/>
3190     <xsd:attribute ref="r:id" use="optional"/>
3191 </xsd:complexType>
3192 <xsd:simpleType name="ST_WebSourceType">
3193     <xsd:restriction base="xsd:string">
3194         <xsd:enumeration value="sheet"/>
3195         <xsd:enumeration value="printArea"/>
3196         <xsd:enumeration value="autoFilter"/>
3197         <xsd:enumeration value="range"/>
3198         <xsd:enumeration value="chart"/>
3199         <xsd:enumeration value="pivotTable"/>
3200         <xsd:enumeration value="query"/>
3201         <xsd:enumeration value="label"/>
3202     </xsd:restriction>
3203 </xsd:simpleType>
3204 <xsd:complexType name="CT_IgnoredErrors">
3205     <xsd:sequence>
3206         <xsd:element name="ignoredError" type="CT_IgnoredError" minOccurs="1"
3207             maxOccurs="unbounded"/>
3208         <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>

```

```

3209     </xsd:sequence>
3210 </xsd:complexType>
3211 <xsd:complexType name="CT_IgnoredError">
3212     <xsd:attribute name="sqref" type="ST_Sqref" use="required"/>
3213     <xsd:attribute name="evalError" type="xsd:boolean" use="optional" default="false"/>
3214     <xsd:attribute name="twoDigitTextYear" type="xsd:boolean" use="optional" default="false"/>
3215     <xsd:attribute name="numberStoredAsText" type="xsd:boolean" use="optional" default="false"/>
3216     <xsd:attribute name="formula" type="xsd:boolean" use="optional" default="false"/>
3217     <xsd:attribute name="formulaRange" type="xsd:boolean" use="optional" default="false"/>
3218     <xsd:attribute name="unlockedFormula" type="xsd:boolean" use="optional" default="false"/>
3219     <xsd:attribute name="emptyCellReference" type="xsd:boolean" use="optional" default="false"/>
3220     <xsd:attribute name="listDataValidation" type="xsd:boolean" use="optional" default="false"/>
3221     <xsd:attribute name="calculatedColumn" type="xsd:boolean" use="optional" default="false"/>
3222 </xsd:complexType>
3223 <xsd:simpleType name="ST_PaneState">
3224     <xsd:restriction base="xsd:string">
3225         <xsd:enumeration value="split"/>
3226         <xsd:enumeration value="frozen"/>
3227         <xsd:enumeration value="frozenSplit"/>
3228     </xsd:restriction>
3229 </xsd:simpleType>
3230 <xsd:complexType name="CT_TableParts">
3231     <xsd:sequence>
3232         <xsd:element name="tablePart" type="CT_TablePart" minOccurs="0" maxOccurs="unbounded"/>
3233     </xsd:sequence>
3234     <xsd:attribute name="count" type="xsd:unsignedInt" use="optional"/>
3235 </xsd:complexType>
3236 <xsd:complexType name="CT_TablePart">
3237     <xsd:attribute ref="r:id" use="required"/>
3238 </xsd:complexType>
3239 <xsd:element name="metadata" type="CT_Metadata"/>
3240 <xsd:complexType name="CT_Metadata">
3241     <xsd:sequence>
3242         <xsd:element name="metadataTypes" type="CT_MetadataTypes" minOccurs="0" maxOccurs="1"/>
3243         <xsd:element name="metadataStrings" type="CT_MetadataStrings" minOccurs="0"
3244             maxOccurs="1"/>
3245         <xsd:element name="mdxMetadata" type="CT_MdxMetadata" minOccurs="0" maxOccurs="1"/>
3246         <xsd:element name="futureMetadata" type="CT_FutureMetadata" minOccurs="0"
3247             maxOccurs="unbounded"/>
3248         <xsd:element name="cellMetadata" type="CT_MetadataBlocks" minOccurs="0" maxOccurs="1"/>
3249         <xsd:element name="valueMetadata" type="CT_MetadataBlocks" minOccurs="0" maxOccurs="1"/>
3250         <xsd:element name="extLst" minOccurs="0" maxOccurs="1" type="CT_ExtensionList"/>
3251     </xsd:sequence>
3252 </xsd:complexType>
3253 <xsd:complexType name="CT_MetadataTypes">
3254     <xsd:sequence>
3255         <xsd:element name="metadataType" type="CT_MetadataType" minOccurs="1"
3256             maxOccurs="unbounded"/>
3257     </xsd:sequence>
3258     <xsd:attribute name="count" type="xsd:unsignedInt" use="optional" default="0"/>
3259 </xsd:complexType>
3260 <xsd:complexType name="CT_MetadataType">
3261     <xsd:attribute name="name" type="s:ST_Xstring" use="required"/>

```

```

3262 <xsd:attribute name="minSupportedVersion" type="xsd:unsignedInt" use="required"/>
3263 <xsd:attribute name="ghostRow" type="xsd:boolean" use="optional" default="false"/>
3264 <xsd:attribute name="ghostCol" type="xsd:boolean" use="optional" default="false"/>
3265 <xsd:attribute name="edit" type="xsd:boolean" use="optional" default="false"/>
3266 <xsd:attribute name="delete" type="xsd:boolean" use="optional" default="false"/>
3267 <xsd:attribute name="copy" type="xsd:boolean" use="optional" default="false"/>
3268 <xsd:attribute name="pasteAll" type="xsd:boolean" use="optional" default="false"/>
3269 <xsd:attribute name="pasteFormulas" type="xsd:boolean" use="optional" default="false"/>
3270 <xsd:attribute name="pasteValues" type="xsd:boolean" use="optional" default="false"/>
3271 <xsd:attribute name="pasteFormats" type="xsd:boolean" use="optional" default="false"/>
3272 <xsd:attribute name="pasteComments" type="xsd:boolean" use="optional" default="false"/>
3273 <xsd:attribute name="pasteDataValidation" type="xsd:boolean" use="optional" default="false"/>
3274 <xsd:attribute name="pasteBorders" type="xsd:boolean" use="optional" default="false"/>
3275 <xsd:attribute name="pasteColWidths" type="xsd:boolean" use="optional" default="false"/>
3276 <xsd:attribute name="pasteNumberFormats" type="xsd:boolean" use="optional" default="false"/>
3277 <xsd:attribute name="merge" type="xsd:boolean" use="optional" default="false"/>
3278 <xsd:attribute name="splitFirst" type="xsd:boolean" use="optional" default="false"/>
3279 <xsd:attribute name="splitAll" type="xsd:boolean" use="optional" default="false"/>
3280 <xsd:attribute name="rowColShift" type="xsd:boolean" use="optional" default="false"/>
3281 <xsd:attribute name="clearAll" type="xsd:boolean" default="false"/>
3282 <xsd:attribute name="clearFormats" type="xsd:boolean" use="optional" default="false"/>
3283 <xsd:attribute name="clearContents" type="xsd:boolean" use="optional" default="false"/>
3284 <xsd:attribute name="clearComments" type="xsd:boolean" use="optional" default="false"/>
3285 <xsd:attribute name="assign" type="xsd:boolean" use="optional" default="false"/>
3286 <xsd:attribute name="coerce" type="xsd:boolean" use="optional" default="false"/>
3287 <xsd:attribute name="adjust" type="xsd:boolean" use="optional" default="false"/>
3288 <xsd:attribute name="cellMeta" type="xsd:boolean" use="optional" default="false"/>
3289 </xsd:complexType>
3290 <xsd:complexType name="CT_MetadataBlocks">
3291 <xsd:sequence>
3292 <xsd:element name="bk" type="CT_MetadataBlock" minOccurs="1" maxOccurs="unbounded"/>
3293 </xsd:sequence>
3294 <xsd:attribute name="count" type="xsd:unsignedInt" use="optional" default="0"/>
3295 </xsd:complexType>
3296 <xsd:complexType name="CT_MetadataBlock">
3297 <xsd:sequence>
3298 <xsd:element name="rc" type="CT_MetadataRecord" minOccurs="1" maxOccurs="unbounded"/>
3299 </xsd:sequence>
3300 </xsd:complexType>
3301 <xsd:complexType name="CT_MetadataRecord">
3302 <xsd:attribute name="t" type="xsd:unsignedInt" use="required"/>
3303 <xsd:attribute name="v" type="xsd:unsignedInt" use="required"/>
3304 </xsd:complexType>
3305 <xsd:complexType name="CT_FutureMetadata">
3306 <xsd:sequence>
3307 <xsd:element name="bk" type="CT_FutureMetadataBlock" minOccurs="0" maxOccurs="unbounded"/>
3308 <xsd:element name="extLst" minOccurs="0" maxOccurs="1" type="CT_ExtensionList"/>
3309 </xsd:sequence>
3310 <xsd:attribute name="name" type="s:ST_Xstring" use="required"/>
3311 <xsd:attribute name="count" type="xsd:unsignedInt" use="optional" default="0"/>
3312 </xsd:complexType>
3313 <xsd:complexType name="CT_FutureMetadataBlock">
3314 <xsd:sequence>

```



```

3315     <xsd:element name="extLst" minOccurs="0" maxOccurs="1" type="CT_ExtensionList"/>
3316   </xsd:sequence>
3317 </xsd:complexType>
3318 <xsd:complexType name="CT_MdxMetadata">
3319   <xsd:sequence>
3320     <xsd:element name="mdx" type="CT_Mdx" minOccurs="1" maxOccurs="unbounded"/>
3321   </xsd:sequence>
3322   <xsd:attribute name="count" type="xsd:unsignedInt" use="optional" default="0"/>
3323 </xsd:complexType>
3324 <xsd:complexType name="CT_Mdx">
3325   <xsd:choice minOccurs="1" maxOccurs="1">
3326     <xsd:element name="t" type="CT_MdxTuple"/>
3327     <xsd:element name="ms" type="CT_MdxSet"/>
3328     <xsd:element name="p" type="CT_MdxMemeberProp"/>
3329     <xsd:element name="k" type="CT_MdxKPI"/>
3330   </xsd:choice>
3331   <xsd:attribute name="n" type="xsd:unsignedInt" use="required"/>
3332   <xsd:attribute name="f" type="ST_MdxFunctionType" use="required"/>
3333 </xsd:complexType>
3334 <xsd:simpleType name="ST_MdxFunctionType">
3335   <xsd:restriction base="xsd:string">
3336     <xsd:enumeration value="m"/>
3337     <xsd:enumeration value="v"/>
3338     <xsd:enumeration value="s"/>
3339     <xsd:enumeration value="c"/>
3340     <xsd:enumeration value="r"/>
3341     <xsd:enumeration value="p"/>
3342     <xsd:enumeration value="k"/>
3343   </xsd:restriction>
3344 </xsd:simpleType>
3345 <xsd:complexType name="CT_MdxTuple">
3346   <xsd:sequence>
3347     <xsd:element name="n" type="CT_MetadataStringIndex" minOccurs="0" maxOccurs="unbounded"/>
3348   </xsd:sequence>
3349   <xsd:attribute name="c" type="xsd:unsignedInt" use="optional" default="0"/>
3350   <xsd:attribute name="ct" type="s:ST_Xstring" use="optional"/>
3351   <xsd:attribute name="si" type="xsd:unsignedInt" use="optional"/>
3352   <xsd:attribute name="fi" type="xsd:unsignedInt" use="optional"/>
3353   <xsd:attribute name="bc" type="ST_UnsignedIntHex" use="optional"/>
3354   <xsd:attribute name="fc" type="ST_UnsignedIntHex" use="optional"/>
3355   <xsd:attribute name="i" type="xsd:boolean" use="optional" default="false"/>
3356   <xsd:attribute name="u" type="xsd:boolean" use="optional" default="false"/>
3357   <xsd:attribute name="st" type="xsd:boolean" use="optional" default="false"/>
3358   <xsd:attribute name="b" type="xsd:boolean" use="optional" default="false"/>
3359 </xsd:complexType>
3360 <xsd:complexType name="CT_MdxSet">
3361   <xsd:sequence>
3362     <xsd:element name="n" type="CT_MetadataStringIndex" minOccurs="0" maxOccurs="unbounded"/>
3363   </xsd:sequence>
3364   <xsd:attribute name="ns" type="xsd:unsignedInt" use="required"/>
3365   <xsd:attribute name="c" type="xsd:unsignedInt" use="optional" default="0"/>
3366   <xsd:attribute name="o" type="ST_MdxSetOrder" use="optional" default="u"/>
3367 </xsd:complexType>

```

```

3368 <xsd:simpleType name="ST_MdxSetOrder">
3369   <xsd:restriction base="xsd:string">
3370     <xsd:enumeration value="u"/>
3371     <xsd:enumeration value="a"/>
3372     <xsd:enumeration value="d"/>
3373     <xsd:enumeration value="aa"/>
3374     <xsd:enumeration value="ad"/>
3375     <xsd:enumeration value="na"/>
3376     <xsd:enumeration value="nd"/>
3377   </xsd:restriction>
3378 </xsd:simpleType>
3379 <xsd:complexType name="CT_MdxMemberProp">
3380   <xsd:attribute name="n" type="xsd:unsignedInt" use="required"/>
3381   <xsd:attribute name="np" type="xsd:unsignedInt" use="required"/>
3382 </xsd:complexType>
3383 <xsd:complexType name="CT_MdxKPI">
3384   <xsd:attribute name="n" type="xsd:unsignedInt" use="required"/>
3385   <xsd:attribute name="np" type="xsd:unsignedInt" use="required"/>
3386   <xsd:attribute name="p" type="ST_MdxKPIProperty" use="required"/>
3387 </xsd:complexType>
3388 <xsd:simpleType name="ST_MdxKPIProperty">
3389   <xsd:restriction base="xsd:string">
3390     <xsd:enumeration value="v"/>
3391     <xsd:enumeration value="g"/>
3392     <xsd:enumeration value="s"/>
3393     <xsd:enumeration value="t"/>
3394     <xsd:enumeration value="w"/>
3395     <xsd:enumeration value="m"/>
3396   </xsd:restriction>
3397 </xsd:simpleType>
3398 <xsd:complexType name="CT_MetadataStringIndex">
3399   <xsd:attribute name="x" type="xsd:unsignedInt" use="required"/>
3400   <xsd:attribute name="s" type="xsd:boolean" use="optional" default="false"/>
3401 </xsd:complexType>
3402 <xsd:complexType name="CT_MetadataStrings">
3403   <xsd:sequence>
3404     <xsd:element name="s" type="CT_XStringElement" minOccurs="1" maxOccurs="unbounded"/>
3405   </xsd:sequence>
3406   <xsd:attribute name="count" type="xsd:unsignedInt" use="optional" default="0"/>
3407 </xsd:complexType>
3408 <xsd:element name="singleXmlCells" type="CT_SingleXmlCells"/>
3409 <xsd:complexType name="CT_SingleXmlCells">
3410   <xsd:sequence>
3411     <xsd:element name="singleXmlCell" type="CT_SingleXmlCell" maxOccurs="unbounded"/>
3412   </xsd:sequence>
3413 </xsd:complexType>
3414 <xsd:complexType name="CT_SingleXmlCell">
3415   <xsd:sequence>
3416     <xsd:element name="xmlCellPr" type="CT_XmlCellPr" minOccurs="1" maxOccurs="1"/>
3417     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
3418   </xsd:sequence>
3419   <xsd:attribute name="id" type="xsd:unsignedInt" use="required"/>
3420   <xsd:attribute name="r" type="ST_CellRef" use="required"/>

```



```

3421     <xsd:attribute name="connectionId" type="xsd:unsignedInt" use="required"/>
3422 </xsd:complexType>
3423 <xsd:complexType name="CT_XmlCellPr">
3424     <xsd:sequence>
3425         <xsd:element name="xmlPr" type="CT_XmlPr" minOccurs="1" maxOccurs="1"/>
3426         <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
3427     </xsd:sequence>
3428     <xsd:attribute name="id" type="xsd:unsignedInt" use="required"/>
3429     <xsd:attribute name="uniqueName" type="s:ST_Xstring" use="optional"/>
3430 </xsd:complexType>
3431 <xsd:complexType name="CT_XmlPr">
3432     <xsd:sequence>
3433         <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
3434     </xsd:sequence>
3435     <xsd:attribute name="mapId" type="xsd:unsignedInt" use="required"/>
3436     <xsd:attribute name="xpath" type="s:ST_Xstring" use="required"/>
3437     <xsd:attribute name="xmlDataType" type="ST_XmlDataType" use="required"/>
3438 </xsd:complexType>
3439 <xsd:element name="styleSheet" type="CT_Stylesheet"/>
3440 <xsd:complexType name="CT_Stylesheet">
3441     <xsd:sequence>
3442         <xsd:element name="numFmts" type="CT_NumFmts" minOccurs="0" maxOccurs="1"/>
3443         <xsd:element name="fonts" type="CT_Fonts" minOccurs="0" maxOccurs="1"/>
3444         <xsd:element name="fills" type="CT_Fills" minOccurs="0" maxOccurs="1"/>
3445         <xsd:element name="borders" type="CT_Borders" minOccurs="0" maxOccurs="1"/>
3446         <xsd:element name="cellStyleXfs" type="CT_CellStyleXfs" minOccurs="0" maxOccurs="1"/>
3447         <xsd:element name="cellXfs" type="CT_CellXfs" minOccurs="0" maxOccurs="1"/>
3448         <xsd:element name="cellStyles" type="CT_CellStyles" minOccurs="0" maxOccurs="1"/>
3449         <xsd:element name="dxfs" type="CT_Dxfs" minOccurs="0" maxOccurs="1"/>
3450         <xsd:element name="tableStyles" type="CT_TableStyles" minOccurs="0" maxOccurs="1"/>
3451         <xsd:element name="colors" type="CT_Colors" minOccurs="0" maxOccurs="1"/>
3452         <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
3453     </xsd:sequence>
3454 </xsd:complexType>
3455 <xsd:complexType name="CT_CellAlignment">
3456     <xsd:attribute name="horizontal" type="ST_HorizontalAlignment" use="optional"/>
3457     <xsd:attribute name="vertical" type="ST_VerticalAlignment" use="optional"/>
3458     <xsd:attribute name="textRotation" type="xsd:unsignedInt" use="optional"/>
3459     <xsd:attribute name="wrapText" type="xsd:boolean" use="optional"/>
3460     <xsd:attribute name="indent" type="xsd:unsignedInt" use="optional"/>
3461     <xsd:attribute name="relativeIndent" type="xsd:int" use="optional"/>
3462     <xsd:attribute name="justifyLastLine" type="xsd:boolean" use="optional"/>
3463     <xsd:attribute name="shrinkToFit" type="xsd:boolean" use="optional"/>
3464     <xsd:attribute name="readingOrder" type="xsd:unsignedInt" use="optional"/>
3465 </xsd:complexType>
3466 <xsd:simpleType name="ST_BorderStyle">
3467     <xsd:restriction base="xsd:string">
3468         <xsd:enumeration value="none"/>
3469         <xsd:enumeration value="thin"/>
3470         <xsd:enumeration value="medium"/>
3471         <xsd:enumeration value="dashed"/>
3472         <xsd:enumeration value="dotted"/>
3473         <xsd:enumeration value="thick"/>

```

```

3474     <xsd:enumeration value="double"/>
3475     <xsd:enumeration value="hair"/>
3476     <xsd:enumeration value="mediumDashed"/>
3477     <xsd:enumeration value="dashDot"/>
3478     <xsd:enumeration value="mediumDashDot"/>
3479     <xsd:enumeration value="dashDotDot"/>
3480     <xsd:enumeration value="mediumDashDotDot"/>
3481     <xsd:enumeration value="slantDashDot"/>
3482   </xsd:restriction>
3483 </xsd:simpleType>
3484 <xsd:complexType name="CT_Borders">
3485   <xsd:sequence>
3486     <xsd:element name="border" type="CT_Border" minOccurs="0" maxOccurs="unbounded"/>
3487   </xsd:sequence>
3488   <xsd:attribute name="count" type="xsd:unsignedInt" use="optional"/>
3489 </xsd:complexType>
3490 <xsd:complexType name="CT_Border">
3491   <xsd:sequence>
3492     <xsd:element name="start" type="CT_BorderPr" minOccurs="0" maxOccurs="1"/>
3493     <xsd:element name="end" type="CT_BorderPr" minOccurs="0" maxOccurs="1"/>
3494     <xsd:element name="left" type="CT_BorderPr" minOccurs="0"/>
3495     <xsd:element name="right" type="CT_BorderPr" minOccurs="0"/>
3496     <xsd:element name="top" type="CT_BorderPr" minOccurs="0" maxOccurs="1"/>
3497     <xsd:element name="bottom" type="CT_BorderPr" minOccurs="0" maxOccurs="1"/>
3498     <xsd:element name="diagonal" type="CT_BorderPr" minOccurs="0" maxOccurs="1"/>
3499     <xsd:element name="vertical" type="CT_BorderPr" minOccurs="0" maxOccurs="1"/>
3500     <xsd:element name="horizontal" type="CT_BorderPr" minOccurs="0" maxOccurs="1"/>
3501   </xsd:sequence>
3502   <xsd:attribute name="diagonalUp" type="xsd:boolean" use="optional"/>
3503   <xsd:attribute name="diagonalDown" type="xsd:boolean" use="optional"/>
3504   <xsd:attribute name="outline" type="xsd:boolean" use="optional" default="true"/>
3505 </xsd:complexType>
3506 <xsd:complexType name="CT_BorderPr">
3507   <xsd:sequence>
3508     <xsd:element name="color" type="CT_Color" minOccurs="0" maxOccurs="1"/>
3509   </xsd:sequence>
3510   <xsd:attribute name="style" type="ST_BorderStyle" use="optional" default="none"/>
3511 </xsd:complexType>
3512 <xsd:complexType name="CT_CellProtection">
3513   <xsd:attribute name="locked" type="xsd:boolean" use="optional"/>
3514   <xsd:attribute name="hidden" type="xsd:boolean" use="optional"/>
3515 </xsd:complexType>
3516 <xsd:complexType name="CT_Fonts">
3517   <xsd:sequence>
3518     <xsd:element name="font" type="CT_Font" minOccurs="0" maxOccurs="unbounded"/>
3519   </xsd:sequence>
3520   <xsd:attribute name="count" type="xsd:unsignedInt" use="optional"/>
3521 </xsd:complexType>
3522 <xsd:complexType name="CT_Fills">
3523   <xsd:sequence>
3524     <xsd:element name="fill" type="CT_Fill" minOccurs="0" maxOccurs="unbounded"/>
3525   </xsd:sequence>
3526   <xsd:attribute name="count" type="xsd:unsignedInt" use="optional"/>

```

```

3527 </xsd:complexType>
3528 <xsd:complexType name="CT_Fill">
3529   <xsd:choice minOccurs="1" maxOccurs="1">
3530     <xsd:element name="patternFill" type="CT_PatternFill" minOccurs="0" maxOccurs="1"/>
3531     <xsd:element name="gradientFill" type="CT_GradientFill" minOccurs="0" maxOccurs="1"/>
3532   </xsd:choice>
3533 </xsd:complexType>
3534 <xsd:complexType name="CT_PatternFill">
3535   <xsd:sequence>
3536     <xsd:element name="fgColor" type="CT_Color" minOccurs="0" maxOccurs="1"/>
3537     <xsd:element name="bgColor" type="CT_Color" minOccurs="0" maxOccurs="1"/>
3538   </xsd:sequence>
3539   <xsd:attribute name="patternType" type="ST_PatternType" use="optional"/>
3540 </xsd:complexType>
3541 <xsd:complexType name="CT_Color">
3542   <xsd:attribute name="auto" type="xsd:boolean" use="optional"/>
3543   <xsd:attribute name="indexed" type="xsd:unsignedInt" use="optional"/>
3544   <xsd:attribute name="rgb" type="ST_UnsignedIntHex" use="optional"/>
3545   <xsd:attribute name="theme" type="xsd:unsignedInt" use="optional"/>
3546   <xsd:attribute name="tint" type="xsd:double" use="optional" default="0.0"/>
3547 </xsd:complexType>
3548 <xsd:simpleType name="ST_PatternType">
3549   <xsd:restriction base="xsd:string">
3550     <xsd:enumeration value="none"/>
3551     <xsd:enumeration value="solid"/>
3552     <xsd:enumeration value="mediumGray"/>
3553     <xsd:enumeration value="darkGray"/>
3554     <xsd:enumeration value="lightGray"/>
3555     <xsd:enumeration value="darkHorizontal"/>
3556     <xsd:enumeration value="darkVertical"/>
3557     <xsd:enumeration value="darkDown"/>
3558     <xsd:enumeration value="darkUp"/>
3559     <xsd:enumeration value="darkGrid"/>
3560     <xsd:enumeration value="darkTrellis"/>
3561     <xsd:enumeration value="lightHorizontal"/>
3562     <xsd:enumeration value="lightVertical"/>
3563     <xsd:enumeration value="lightDown"/>
3564     <xsd:enumeration value="lightUp"/>
3565     <xsd:enumeration value="lightGrid"/>
3566     <xsd:enumeration value="lightTrellis"/>
3567     <xsd:enumeration value="gray125"/>
3568     <xsd:enumeration value="gray0625"/>
3569   </xsd:restriction>
3570 </xsd:simpleType>
3571 <xsd:complexType name="CT_GradientFill">
3572   <xsd:sequence>
3573     <xsd:element name="stop" type="CT_GradientStop" minOccurs="0" maxOccurs="unbounded"/>
3574   </xsd:sequence>
3575   <xsd:attribute name="type" type="ST_GradientType" use="optional" default="linear"/>
3576   <xsd:attribute name="degree" type="xsd:double" use="optional" default="0"/>
3577   <xsd:attribute name="left" type="xsd:double" use="optional" default="0"/>
3578   <xsd:attribute name="right" type="xsd:double" use="optional" default="0"/>
3579   <xsd:attribute name="top" type="xsd:double" use="optional" default="0"/>

```

```

3580     <xsd:attribute name="bottom" type="xsd:double" use="optional" default="0"/>
3581 </xsd:complexType>
3582 <xsd:complexType name="CT_GradientStop">
3583     <xsd:sequence>
3584         <xsd:element name="color" type="CT_Color" minOccurs="1" maxOccurs="1"/>
3585     </xsd:sequence>
3586     <xsd:attribute name="position" type="xsd:double" use="required"/>
3587 </xsd:complexType>
3588 <xsd:simpleType name="ST_GradientType">
3589     <xsd:restriction base="xsd:string">
3590         <xsd:enumeration value="linear"/>
3591         <xsd:enumeration value="path"/>
3592     </xsd:restriction>
3593 </xsd:simpleType>
3594 <xsd:simpleType name="ST_HorizontalAlignment">
3595     <xsd:restriction base="xsd:string">
3596         <xsd:enumeration value="general"/>
3597         <xsd:enumeration value="left"/>
3598         <xsd:enumeration value="center"/>
3599         <xsd:enumeration value="right"/>
3600         <xsd:enumeration value="fill"/>
3601         <xsd:enumeration value="justify"/>
3602         <xsd:enumeration value="centerContinuous"/>
3603         <xsd:enumeration value="distributed"/>
3604     </xsd:restriction>
3605 </xsd:simpleType>
3606 <xsd:simpleType name="ST_VerticalAlignment">
3607     <xsd:restriction base="xsd:string">
3608         <xsd:enumeration value="top"/>
3609         <xsd:enumeration value="center"/>
3610         <xsd:enumeration value="bottom"/>
3611         <xsd:enumeration value="justify"/>
3612         <xsd:enumeration value="distributed"/>
3613     </xsd:restriction>
3614 </xsd:simpleType>
3615 <xsd:complexType name="CT_NumFmts">
3616     <xsd:sequence>
3617         <xsd:element name="numFmt" type="CT_NumFmt" minOccurs="0" maxOccurs="unbounded"/>
3618     </xsd:sequence>
3619     <xsd:attribute name="count" type="xsd:unsignedInt" use="optional"/>
3620 </xsd:complexType>
3621 <xsd:complexType name="CT_NumFmt">
3622     <xsd:attribute name="numFmtId" type="ST_NumFmtId" use="required"/>
3623     <xsd:attribute name="formatCode" type="s:ST_Xstring" use="required"/>
3624 </xsd:complexType>
3625 <xsd:complexType name="CT_CellStyleXfs">
3626     <xsd:sequence>
3627         <xsd:element name="xf" type="CT_Xf" minOccurs="1" maxOccurs="unbounded"/>
3628     </xsd:sequence>
3629     <xsd:attribute name="count" type="xsd:unsignedInt" use="optional"/>
3630 </xsd:complexType>
3631 <xsd:complexType name="CT_CellXfs">
3632     <xsd:sequence>

```

```

3633     <xsd:element name="xf" type="CT_Xf" minOccurs="1" maxOccurs="unbounded"/>
3634 </xsd:sequence>
3635 <xsd:attribute name="count" type="xsd:unsignedInt" use="optional"/>
3636 </xsd:complexType>
3637 <xsd:complexType name="CT_Xf">
3638   <xsd:sequence>
3639     <xsd:element name="alignment" type="CT_CellAlignment" minOccurs="0" maxOccurs="1"/>
3640     <xsd:element name="protection" type="CT_CellProtection" minOccurs="0" maxOccurs="1"/>
3641     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
3642   </xsd:sequence>
3643   <xsd:attribute name="numFmtId" type="ST_NumFmtId" use="optional"/>
3644   <xsd:attribute name="fontId" type="ST_FontId" use="optional"/>
3645   <xsd:attribute name="fillId" type="ST_FillId" use="optional"/>
3646   <xsd:attribute name="borderId" type="ST_BorderId" use="optional"/>
3647   <xsd:attribute name="xfId" type="ST_CellStyleXfId" use="optional"/>
3648   <xsd:attribute name="quotePrefix" type="xsd:boolean" use="optional" default="false"/>
3649   <xsd:attribute name="pivotButton" type="xsd:boolean" use="optional" default="false"/>
3650   <xsd:attribute name="applyNumberFormat" type="xsd:boolean" use="optional"/>
3651   <xsd:attribute name="applyFont" type="xsd:boolean" use="optional"/>
3652   <xsd:attribute name="applyFill" type="xsd:boolean" use="optional"/>
3653   <xsd:attribute name="applyBorder" type="xsd:boolean" use="optional"/>
3654   <xsd:attribute name="applyAlignment" type="xsd:boolean" use="optional"/>
3655   <xsd:attribute name="applyProtection" type="xsd:boolean" use="optional"/>
3656 </xsd:complexType>
3657 <xsd:complexType name="CT_CellStyles">
3658   <xsd:sequence>
3659     <xsd:element name="cellStyle" type="CT_CellStyle" minOccurs="1" maxOccurs="unbounded"/>
3660   </xsd:sequence>
3661   <xsd:attribute name="count" type="xsd:unsignedInt" use="optional"/>
3662 </xsd:complexType>
3663 <xsd:complexType name="CT_CellStyle">
3664   <xsd:sequence>
3665     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
3666   </xsd:sequence>
3667   <xsd:attribute name="name" type="s:ST_Xstring" use="optional"/>
3668   <xsd:attribute name="xfId" type="ST_CellStyleXfId" use="required"/>
3669   <xsd:attribute name="builtinId" type="xsd:unsignedInt" use="optional"/>
3670   <xsd:attribute name="iLevel" type="xsd:unsignedInt" use="optional"/>
3671   <xsd:attribute name="hidden" type="xsd:boolean" use="optional"/>
3672   <xsd:attribute name="customBuiltin" type="xsd:boolean" use="optional"/>
3673 </xsd:complexType>
3674 <xsd:complexType name="CT_Dxfs">
3675   <xsd:sequence>
3676     <xsd:element name="dxf" type="CT_Dxf" minOccurs="0" maxOccurs="unbounded"/>
3677   </xsd:sequence>
3678   <xsd:attribute name="count" type="xsd:unsignedInt" use="optional"/>
3679 </xsd:complexType>
3680 <xsd:complexType name="CT_Dxf">
3681   <xsd:sequence>
3682     <xsd:element name="font" type="CT_Font" minOccurs="0" maxOccurs="1"/>
3683     <xsd:element name="numFmt" type="CT_NumFmt" minOccurs="0" maxOccurs="1"/>
3684     <xsd:element name="fill" type="CT_Fill" minOccurs="0" maxOccurs="1"/>
3685     <xsd:element name="alignment" type="CT_CellAlignment" minOccurs="0" maxOccurs="1"/>

```

```

3686     <xsd:element name="border" type="CT_Border" minOccurs="0" maxOccurs="1"/>
3687     <xsd:element name="protection" type="CT_CellProtection" minOccurs="0" maxOccurs="1"/>
3688     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
3689   </xsd:sequence>
3690 </xsd:complexType>
3691 <xsd:simpleType name="ST_NumFmtId">
3692   <xsd:restriction base="xsd:unsignedInt"/>
3693 </xsd:simpleType>
3694 <xsd:simpleType name="ST_FontId">
3695   <xsd:restriction base="xsd:unsignedInt"/>
3696 </xsd:simpleType>
3697 <xsd:simpleType name="ST_FillId">
3698   <xsd:restriction base="xsd:unsignedInt"/>
3699 </xsd:simpleType>
3700 <xsd:simpleType name="ST_BorderId">
3701   <xsd:restriction base="xsd:unsignedInt"/>
3702 </xsd:simpleType>
3703 <xsd:simpleType name="ST_CellStyleXfId">
3704   <xsd:restriction base="xsd:unsignedInt"/>
3705 </xsd:simpleType>
3706 <xsd:simpleType name="ST_DxfId">
3707   <xsd:restriction base="xsd:unsignedInt"/>
3708 </xsd:simpleType>
3709 <xsd:complexType name="CT_Colors">
3710   <xsd:sequence>
3711     <xsd:element name="indexedColors" type="CT_IndexedColors" minOccurs="0" maxOccurs="1"/>
3712     <xsd:element name="mruColors" type="CT_MRUColors" minOccurs="0" maxOccurs="1"/>
3713   </xsd:sequence>
3714 </xsd:complexType>
3715 <xsd:complexType name="CT_IndexedColors">
3716   <xsd:sequence>
3717     <xsd:element name="rgbColor" type="CT_RgbColor" minOccurs="1" maxOccurs="unbounded"/>
3718   </xsd:sequence>
3719 </xsd:complexType>
3720 <xsd:complexType name="CT_MRUColors">
3721   <xsd:sequence>
3722     <xsd:element name="color" type="CT_Color" minOccurs="1" maxOccurs="unbounded"/>
3723   </xsd:sequence>
3724 </xsd:complexType>
3725 <xsd:complexType name="CT_RgbColor">
3726   <xsd:attribute name="rgb" type="ST_UnsignedIntHex" use="optional"/>
3727 </xsd:complexType>
3728 <xsd:complexType name="CT_TableStyles">
3729   <xsd:sequence>
3730     <xsd:element name="tableStyle" type="CT_TableStyle" minOccurs="0" maxOccurs="unbounded"/>
3731   </xsd:sequence>
3732   <xsd:attribute name="count" type="xsd:unsignedInt" use="optional"/>
3733   <xsd:attribute name="defaultTableStyle" type="xsd:string" use="optional"/>
3734   <xsd:attribute name="defaultPivotStyle" type="xsd:string" use="optional"/>
3735 </xsd:complexType>
3736 <xsd:complexType name="CT_TableStyle">
3737   <xsd:sequence>

```



```

3738     <xsd:element name="tableStyleElement" type="CT_TableStyleElement" minOccurs="0"
3739         maxOccurs="unbounded"/>
3740 </xsd:sequence>
3741 <xsd:attribute name="name" type="xsd:string" use="required"/>
3742 <xsd:attribute name="pivot" type="xsd:boolean" use="optional" default="true"/>
3743 <xsd:attribute name="table" type="xsd:boolean" use="optional" default="true"/>
3744 <xsd:attribute name="count" type="xsd:unsignedInt" use="optional"/>
3745 </xsd:complexType>
3746 <xsd:complexType name="CT_TableStyleElement">
3747     <xsd:attribute name="type" type="ST_TableStyleType" use="required"/>
3748     <xsd:attribute name="size" type="xsd:unsignedInt" use="optional" default="1"/>
3749     <xsd:attribute name="dxId" type="ST_DxId" use="optional"/>
3750 </xsd:complexType>
3751 <xsd:simpleType name="ST_TableStyleType">
3752     <xsd:restriction base="xsd:string">
3753         <xsd:enumeration value="wholeTable"/>
3754         <xsd:enumeration value="headerRow"/>
3755         <xsd:enumeration value="totalRow"/>
3756         <xsd:enumeration value="firstColumn"/>
3757         <xsd:enumeration value="lastColumn"/>
3758         <xsd:enumeration value="firstRowStripe"/>
3759         <xsd:enumeration value="secondRowStripe"/>
3760         <xsd:enumeration value="firstColumnStripe"/>
3761         <xsd:enumeration value="secondColumnStripe"/>
3762         <xsd:enumeration value="firstHeaderCell"/>
3763         <xsd:enumeration value="lastHeaderCell"/>
3764         <xsd:enumeration value="firstTotalCell"/>
3765         <xsd:enumeration value="lastTotalCell"/>
3766         <xsd:enumeration value="firstSubtotalColumn"/>
3767         <xsd:enumeration value="secondSubtotalColumn"/>
3768         <xsd:enumeration value="thirdSubtotalColumn"/>
3769         <xsd:enumeration value="firstSubtotalRow"/>
3770         <xsd:enumeration value="secondSubtotalRow"/>
3771         <xsd:enumeration value="thirdSubtotalRow"/>
3772         <xsd:enumeration value="blankRow"/>
3773         <xsd:enumeration value="firstColumnSubheading"/>
3774         <xsd:enumeration value="secondColumnSubheading"/>
3775         <xsd:enumeration value="thirdColumnSubheading"/>
3776         <xsd:enumeration value="firstRowSubheading"/>
3777         <xsd:enumeration value="secondRowSubheading"/>
3778         <xsd:enumeration value="thirdRowSubheading"/>
3779         <xsd:enumeration value="pageFieldLabels"/>
3780         <xsd:enumeration value="pageFieldValues"/>
3781     </xsd:restriction>
3782 </xsd:simpleType>
3783 <xsd:complexType name="CT_BooleanProperty">
3784     <xsd:attribute name="val" type="xsd:boolean" use="optional" default="true"/>
3785 </xsd:complexType>
3786 <xsd:complexType name="CT_FontSize">
3787     <xsd:attribute name="val" type="xsd:double" use="required"/>
3788 </xsd:complexType>
3789 <xsd:complexType name="CT_IntProperty">
3790     <xsd:attribute name="val" type="xsd:int" use="required"/>

```

```

3791 </xsd:complexType>
3792 <xsd:complexType name="CT_FontName">
3793   <xsd:attribute name="val" type="s:ST_Xstring" use="required"/>
3794 </xsd:complexType>
3795 <xsd:complexType name="CT_VerticalAlignFontProperty">
3796   <xsd:attribute name="val" type="s:ST_VerticalAlignRun" use="required"/>
3797 </xsd:complexType>
3798 <xsd:complexType name="CT_FontScheme">
3799   <xsd:attribute name="val" type="ST_FontScheme" use="required"/>
3800 </xsd:complexType>
3801 <xsd:simpleType name="ST_FontScheme">
3802   <xsd:restriction base="xsd:string">
3803     <xsd:enumeration value="none"/>
3804     <xsd:enumeration value="major"/>
3805     <xsd:enumeration value="minor"/>
3806   </xsd:restriction>
3807 </xsd:simpleType>
3808 <xsd:complexType name="CT_UnderlineProperty">
3809   <xsd:attribute name="val" type="ST_UnderlineValues" use="optional" default="single"/>
3810 </xsd:complexType>
3811 <xsd:simpleType name="ST_UnderlineValues">
3812   <xsd:restriction base="xsd:string">
3813     <xsd:enumeration value="single"/>
3814     <xsd:enumeration value="double"/>
3815     <xsd:enumeration value="singleAccounting"/>
3816     <xsd:enumeration value="doubleAccounting"/>
3817     <xsd:enumeration value="none"/>
3818   </xsd:restriction>
3819 </xsd:simpleType>
3820 <xsd:complexType name="CT_Font">
3821   <xsd:choice maxOccurs="unbounded">
3822     <xsd:element name="name" type="CT_FontName" minOccurs="0" maxOccurs="1"/>
3823     <xsd:element name="charset" type="CT_IntProperty" minOccurs="0" maxOccurs="1"/>
3824     <xsd:element name="family" type="CT_FontFamily" minOccurs="0" maxOccurs="1"/>
3825     <xsd:element name="b" type="CT_BooleanProperty" minOccurs="0" maxOccurs="1"/>
3826     <xsd:element name="i" type="CT_BooleanProperty" minOccurs="0" maxOccurs="1"/>
3827     <xsd:element name="strike" type="CT_BooleanProperty" minOccurs="0" maxOccurs="1"/>
3828     <xsd:element name="outline" type="CT_BooleanProperty" minOccurs="0" maxOccurs="1"/>
3829     <xsd:element name="shadow" type="CT_BooleanProperty" minOccurs="0" maxOccurs="1"/>
3830     <xsd:element name="condense" type="CT_BooleanProperty" minOccurs="0" maxOccurs="1"/>
3831     <xsd:element name="extend" type="CT_BooleanProperty" minOccurs="0" maxOccurs="1"/>
3832     <xsd:element name="color" type="CT_Color" minOccurs="0" maxOccurs="1"/>
3833     <xsd:element name="sz" type="CT_FontSize" minOccurs="0" maxOccurs="1"/>
3834     <xsd:element name="u" type="CT_UnderlineProperty" minOccurs="0" maxOccurs="1"/>
3835     <xsd:element name="vertAlign" type="CT_VerticalAlignFontProperty" minOccurs="0"
3836       maxOccurs="1"/>
3837     <xsd:element name="scheme" type="CT_FontScheme" minOccurs="0" maxOccurs="1"/>
3838   </xsd:choice>
3839 </xsd:complexType>
3840 <xsd:complexType name="CT_FontFamily">
3841   <xsd:attribute name="val" type="ST_FontFamily" use="required"/>
3842 </xsd:complexType>
3843 <xsd:simpleType name="ST_FontFamily">

```



```

3844     <xsd:restriction base="xsd:integer">
3845         <xsd:minInclusive value="0"/>
3846         <xsd:maxInclusive value="14"/>
3847     </xsd:restriction>
3848 </xsd:simpleType>
3849 <xsd:attributeGroup name="AG_AutoFormat">
3850     <xsd:attribute name="autoFormatId" type="xsd:unsignedInt"/>
3851     <xsd:attribute name="applyNumberFormats" type="xsd:boolean"/>
3852     <xsd:attribute name="applyBorderFormats" type="xsd:boolean"/>
3853     <xsd:attribute name="applyFontFormats" type="xsd:boolean"/>
3854     <xsd:attribute name="applyPatternFormats" type="xsd:boolean"/>
3855     <xsd:attribute name="applyAlignmentFormats" type="xsd:boolean"/>
3856     <xsd:attribute name="applyWidthHeightFormats" type="xsd:boolean"/>
3857 </xsd:attributeGroup>
3858 <xsd:element name="externalLink" type="CT_ExternalLink"/>
3859 <xsd:complexType name="CT_ExternalLink">
3860     <xsd:sequence>
3861         <xsd:choice>
3862             <xsd:element name="externalBook" type="CT_ExternalBook" minOccurs="0" maxOccurs="1"/>
3863             <xsd:element name="ddeLink" type="CT_DdeLink" minOccurs="0" maxOccurs="1"/>
3864             <xsd:element name="oleLink" type="CT_OleLink" minOccurs="0" maxOccurs="1"/>
3865         </xsd:choice>
3866         <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>
3867     </xsd:sequence>
3868 </xsd:complexType>
3869 <xsd:complexType name="CT_ExternalBook">
3870     <xsd:sequence>
3871         <xsd:element name="sheetNames" type="CT_ExternalSheetNames" minOccurs="0" maxOccurs="1"/>
3872         <xsd:element name="definedNames" type="CT_ExternalDefinedNames" minOccurs="0"
3873             maxOccurs="1"/>
3874         <xsd:element name="sheetDataSet" type="CT_ExternalSheetDataSet" minOccurs="0"
3875             maxOccurs="1"/>
3876     </xsd:sequence>
3877     <xsd:attribute ref="r:id" use="required"/>
3878 </xsd:complexType>
3879 <xsd:complexType name="CT_ExternalSheetNames">
3880     <xsd:sequence>
3881         <xsd:element name="sheetName" minOccurs="1" maxOccurs="unbounded"
3882             type="CT_ExternalSheetName"/>
3883     </xsd:sequence>
3884 </xsd:complexType>
3885 <xsd:complexType name="CT_ExternalSheetName">
3886     <xsd:attribute name="val" type="s:ST_Xstring"/>
3887 </xsd:complexType>
3888 <xsd:complexType name="CT_ExternalDefinedNames">
3889     <xsd:sequence>
3890         <xsd:element name="definedName" type="CT_ExternalDefinedName" minOccurs="0"
3891             maxOccurs="unbounded"/>
3892     </xsd:sequence>
3893 </xsd:complexType>
3894 <xsd:complexType name="CT_ExternalDefinedName">
3895     <xsd:attribute name="name" type="s:ST_Xstring" use="required"/>
3896     <xsd:attribute name="refersTo" type="s:ST_Xstring" use="optional"/>

```

```

3897     <xsd:attribute name="sheetId" type="xsd:unsignedInt" use="optional"/>
3898   </xsd:complexType>
3899   <xsd:complexType name="CT_ExternalSheetDataSet">
3900     <xsd:sequence>
3901       <xsd:element name="sheetData" type="CT_ExternalSheetData" minOccurs="1"
3902         maxOccurs="unbounded"/>
3903     </xsd:sequence>
3904   </xsd:complexType>
3905   <xsd:complexType name="CT_ExternalSheetData">
3906     <xsd:sequence>
3907       <xsd:element name="row" type="CT_ExternalRow" minOccurs="0" maxOccurs="unbounded"/>
3908     </xsd:sequence>
3909     <xsd:attribute name="sheetId" type="xsd:unsignedInt" use="required"/>
3910     <xsd:attribute name="refreshError" type="xsd:boolean" use="optional" default="false"/>
3911   </xsd:complexType>
3912   <xsd:complexType name="CT_ExternalRow">
3913     <xsd:sequence>
3914       <xsd:element name="cell" type="CT_ExternalCell" minOccurs="0" maxOccurs="unbounded"/>
3915     </xsd:sequence>
3916     <xsd:attribute name="r" type="xsd:unsignedInt" use="required"/>
3917   </xsd:complexType>
3918   <xsd:complexType name="CT_ExternalCell">
3919     <xsd:sequence>
3920       <xsd:element name="v" type="s:ST Xstring" minOccurs="0" maxOccurs="1"/>
3921     </xsd:sequence>
3922     <xsd:attribute name="r" type="ST CellRef" use="optional"/>
3923     <xsd:attribute name="t" type="ST CellType" use="optional" default="n"/>
3924     <xsd:attribute name="vm" type="xsd:unsignedInt" use="optional" default="0"/>
3925   </xsd:complexType>
3926   <xsd:complexType name="CT_DdeLink">
3927     <xsd:sequence>
3928       <xsd:element name="ddeItems" type="CT_DdeItems" minOccurs="0" maxOccurs="1"/>
3929     </xsd:sequence>
3930     <xsd:attribute name="ddeService" type="s:ST Xstring" use="required"/>
3931     <xsd:attribute name="ddeTopic" type="s:ST Xstring" use="required"/>
3932   </xsd:complexType>
3933   <xsd:complexType name="CT_DdeItems">
3934     <xsd:sequence>
3935       <xsd:element name="ddeItem" type="CT_DdeItem" minOccurs="0" maxOccurs="unbounded"/>
3936     </xsd:sequence>
3937   </xsd:complexType>
3938   <xsd:complexType name="CT_DdeItem">
3939     <xsd:sequence>
3940       <xsd:element name="values" type="CT_DdeValues" minOccurs="0" maxOccurs="1"/>
3941     </xsd:sequence>
3942     <xsd:attribute name="name" type="s:ST Xstring" default="0"/>
3943     <xsd:attribute name="ole" type="xsd:boolean" use="optional" default="false"/>
3944     <xsd:attribute name="advise" type="xsd:boolean" use="optional" default="false"/>
3945     <xsd:attribute name="preferPic" type="xsd:boolean" use="optional" default="false"/>
3946   </xsd:complexType>
3947   <xsd:complexType name="CT_DdeValues">
3948     <xsd:sequence>
3949       <xsd:element name="value" minOccurs="1" maxOccurs="unbounded" type="CT_DdeValue"/>

```

```

3950     </xsd:sequence>
3951     <xsd:attribute name="rows" type="xsd:unsignedInt" use="optional" default="1"/>
3952     <xsd:attribute name="cols" type="xsd:unsignedInt" use="optional" default="1"/>
3953 </xsd:complexType>
3954 <xsd:complexType name="CT_DdeValue">
3955     <xsd:sequence>
3956         <xsd:element name="val" type="s:ST Xstring" minOccurs="1" maxOccurs="1"/>
3957     </xsd:sequence>
3958     <xsd:attribute name="t" type="ST DdeValueType" use="optional" default="n"/>
3959 </xsd:complexType>
3960 <xsd:simpleType name="ST_DdeValueType">
3961     <xsd:restriction base="xsd:string">
3962         <xsd:enumeration value="nil"/>
3963         <xsd:enumeration value="b"/>
3964         <xsd:enumeration value="n"/>
3965         <xsd:enumeration value="e"/>
3966         <xsd:enumeration value="str"/>
3967     </xsd:restriction>
3968 </xsd:simpleType>
3969 <xsd:complexType name="CT_OleLink">
3970     <xsd:sequence>
3971         <xsd:element name="oleItems" type="CT OleItems" minOccurs="0" maxOccurs="1"/>
3972     </xsd:sequence>
3973     <xsd:attribute ref="r:id" use="required"/>
3974     <xsd:attribute name="progId" type="s:ST Xstring" use="required"/>
3975 </xsd:complexType>
3976 <xsd:complexType name="CT_OleItems">
3977     <xsd:sequence>
3978         <xsd:element name="oleItem" type="CT OleItem" minOccurs="0" maxOccurs="unbounded"/>
3979     </xsd:sequence>
3980 </xsd:complexType>
3981 <xsd:complexType name="CT_OleItem">
3982     <xsd:attribute name="name" type="s:ST Xstring" use="required"/>
3983     <xsd:attribute name="icon" type="xsd:boolean" use="optional" default="false"/>
3984     <xsd:attribute name="advise" type="xsd:boolean" use="optional" default="false"/>
3985     <xsd:attribute name="preferPic" type="xsd:boolean" use="optional" default="false"/>
3986 </xsd:complexType>
3987 <xsd:element name="table" type="CT Table"/>
3988 <xsd:complexType name="CT_Table">
3989     <xsd:sequence>
3990         <xsd:element name="autoFilter" type="CT AutoFilter" minOccurs="0" maxOccurs="1"/>
3991         <xsd:element name="sortState" type="CT SortState" minOccurs="0" maxOccurs="1"/>
3992         <xsd:element name="tableColumns" type="CT TableColumns" minOccurs="1" maxOccurs="1"/>
3993         <xsd:element name="tableStyleInfo" type="CT TableStyleInfo" minOccurs="0" maxOccurs="1"/>
3994         <xsd:element name="extLst" type="CT ExtensionList" minOccurs="0" maxOccurs="1"/>
3995     </xsd:sequence>
3996     <xsd:attribute name="id" type="xsd:unsignedInt" use="required"/>
3997     <xsd:attribute name="name" type="s:ST Xstring" use="optional"/>
3998     <xsd:attribute name="displayName" type="s:ST Xstring" use="required"/>
3999     <xsd:attribute name="comment" type="s:ST Xstring" use="optional"/>
4000     <xsd:attribute name="ref" type="ST Ref" use="required"/>
4001     <xsd:attribute name="tableType" type="ST TableType" use="optional" default="worksheet"/>
4002     <xsd:attribute name="headerRowCount" type="xsd:unsignedInt" use="optional" default="1"/>

```

```

4003 <xsd:attribute name="insertRow" type="xsd:boolean" use="optional" default="false"/>
4004 <xsd:attribute name="insertRowShift" type="xsd:boolean" use="optional" default="false"/>
4005 <xsd:attribute name="totalsRowCount" type="xsd:unsignedInt" use="optional" default="0"/>
4006 <xsd:attribute name="totalsRowShown" type="xsd:boolean" use="optional" default="true"/>
4007 <xsd:attribute name="published" type="xsd:boolean" use="optional" default="false"/>
4008 <xsd:attribute name="headerRowDxfId" type="ST DxfId" use="optional"/>
4009 <xsd:attribute name="dataDxfId" type="ST DxfId" use="optional"/>
4010 <xsd:attribute name="totalsRowDxfId" type="ST DxfId" use="optional"/>
4011 <xsd:attribute name="headerRowBorderDxfId" type="ST DxfId" use="optional"/>
4012 <xsd:attribute name="tableBorderDxfId" type="ST DxfId" use="optional"/>
4013 <xsd:attribute name="totalsRowBorderDxfId" type="ST DxfId" use="optional"/>
4014 <xsd:attribute name="headerRowCellStyle" type="s:ST Xstring" use="optional"/>
4015 <xsd:attribute name="dataCellStyle" type="s:ST Xstring" use="optional"/>
4016 <xsd:attribute name="totalsRowCellStyle" type="s:ST Xstring" use="optional"/>
4017 <xsd:attribute name="connectionId" type="xsd:unsignedInt" use="optional"/>
4018 </xsd:complexType>
4019 <xsd:simpleType name="ST_TableType">
4020 <xsd:restriction base="xsd:string">
4021 <xsd:enumeration value="worksheet"/>
4022 <xsd:enumeration value="xml"/>
4023 <xsd:enumeration value="queryTable"/>
4024 </xsd:restriction>
4025 </xsd:simpleType>
4026 <xsd:complexType name="CT_TableStyleInfo">
4027 <xsd:attribute name="name" type="s:ST Xstring" use="optional"/>
4028 <xsd:attribute name="showFirstColumn" type="xsd:boolean" use="optional"/>
4029 <xsd:attribute name="showLastColumn" type="xsd:boolean" use="optional"/>
4030 <xsd:attribute name="showRowStripes" type="xsd:boolean" use="optional"/>
4031 <xsd:attribute name="showColumnStripes" type="xsd:boolean" use="optional"/>
4032 </xsd:complexType>
4033 <xsd:complexType name="CT_TableColumns">
4034 <xsd:sequence>
4035 <xsd:element name="tableColumn" type="CT_TableColumn" minOccurs="1"
4036 <xsd:sequence>
4037 <xsd:sequence>
4038 <xsd:attribute name="count" type="xsd:unsignedInt" use="optional"/>
4039 </xsd:complexType>
4040 <xsd:complexType name="CT_TableColumn">
4041 <xsd:sequence>
4042 <xsd:element name="calculatedColumnFormula" type="CT_TableFormula" minOccurs="0"
4043 <xsd:sequence>
4044 <xsd:element name="totalsRowFormula" type="CT_TableFormula" minOccurs="0" maxOccurs="1"/>
4045 <xsd:element name="xmlColumnPr" type="CT_XmlColumnPr" minOccurs="0" maxOccurs="1"/>
4046 <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
4047 </xsd:sequence>
4048 <xsd:attribute name="id" type="xsd:unsignedInt" use="required"/>
4049 <xsd:attribute name="uniqueName" type="s:ST Xstring" use="optional"/>
4050 <xsd:attribute name="name" type="s:ST Xstring" use="required"/>
4051 <xsd:attribute name="totalsRowFunction" type="ST TotalsRowFunction" use="optional"
4052 <xsd:attribute name="totalsRowLabel" type="s:ST Xstring" use="optional"/>
4053 <xsd:attribute name="queryTableFieldId" type="xsd:unsignedInt" use="optional"/>
4054 <xsd:attribute name="headerRowDxfId" type="ST DxfId" use="optional"/>

```

```

4056     <xsd:attribute name="dataDxfId" type="ST DxfId" use="optional"/>
4057     <xsd:attribute name="totalsRowDxfId" type="ST DxfId" use="optional"/>
4058     <xsd:attribute name="headerRowCellStyle" type="s:ST Xstring" use="optional"/>
4059     <xsd:attribute name="dataCellStyle" type="s:ST Xstring" use="optional"/>
4060     <xsd:attribute name="totalsRowCellStyle" type="s:ST Xstring" use="optional"/>
4061 </xsd:complexType>
4062 <xsd:complexType name="CT_TableFormula">
4063     <xsd:simpleContent>
4064         <xsd:extension base="ST Formula">
4065             <xsd:attribute name="array" type="xsd:boolean" default="false"/>
4066         </xsd:extension>
4067     </xsd:simpleContent>
4068 </xsd:complexType>
4069 <xsd:simpleType name="ST_TotalsRowFunction">
4070     <xsd:restriction base="xsd:string">
4071         <xsd:enumeration value="none"/>
4072         <xsd:enumeration value="sum"/>
4073         <xsd:enumeration value="min"/>
4074         <xsd:enumeration value="max"/>
4075         <xsd:enumeration value="average"/>
4076         <xsd:enumeration value="count"/>
4077         <xsd:enumeration value="countNums"/>
4078         <xsd:enumeration value="stdDev"/>
4079         <xsd:enumeration value="var"/>
4080         <xsd:enumeration value="custom"/>
4081     </xsd:restriction>
4082 </xsd:simpleType>
4083 <xsd:complexType name="CT_XmlColumnPr">
4084     <xsd:sequence>
4085         <xsd:element name="extLst" type="CT ExtensionList" minOccurs="0" maxOccurs="1"/>
4086     </xsd:sequence>
4087     <xsd:attribute name="mapId" type="xsd:unsignedInt" use="required"/>
4088     <xsd:attribute name="xpath" type="s:ST Xstring" use="required"/>
4089     <xsd:attribute name="denormalized" type="xsd:boolean" use="optional" default="false"/>
4090     <xsd:attribute name="xmlDataType" type="ST XmlDataType" use="required"/>
4091 </xsd:complexType>
4092 <xsd:simpleType name="ST_XmlDataType">
4093     <xsd:restriction base="xsd:string"/>
4094 </xsd:simpleType>
4095 <xsd:element name="volTypes" type="CT_VolTypes"/>
4096 <xsd:complexType name="CT_VolTypes">
4097     <xsd:sequence>
4098         <xsd:element name="volType" type="CT VolType" minOccurs="1" maxOccurs="unbounded"/>
4099         <xsd:element name="extLst" minOccurs="0" type="CT ExtensionList"/>
4100     </xsd:sequence>
4101 </xsd:complexType>
4102 <xsd:complexType name="CT_VolType">
4103     <xsd:sequence>
4104         <xsd:element name="main" type="CT VolMain" minOccurs="1" maxOccurs="unbounded"/>
4105     </xsd:sequence>
4106     <xsd:attribute name="type" type="ST VolDepType" use="required"/>
4107 </xsd:complexType>
4108 <xsd:complexType name="CT_VolMain">

```

```

4109     <xsd:sequence>
4110         <xsd:element name="tp" type="CT_VolTopic" minOccurs="1" maxOccurs="unbounded"/>
4111     </xsd:sequence>
4112     <xsd:attribute name="first" type="s:ST_Xstring" use="required"/>
4113 </xsd:complexType>
4114 <xsd:complexType name="CT_VolTopic">
4115     <xsd:sequence>
4116         <xsd:element name="v" type="s:ST_Xstring" minOccurs="1" maxOccurs="1"/>
4117         <xsd:element name="stp" type="s:ST_Xstring" minOccurs="0" maxOccurs="unbounded"/>
4118         <xsd:element name="tr" type="CT_VolTopicRef" minOccurs="1" maxOccurs="unbounded"/>
4119     </xsd:sequence>
4120     <xsd:attribute name="t" type="ST_VolValueType" use="optional" default="n"/>
4121 </xsd:complexType>
4122 <xsd:complexType name="CT_VolTopicRef">
4123     <xsd:attribute name="r" type="ST_CellRef" use="required"/>
4124     <xsd:attribute name="s" type="xsd:unsignedInt" use="required"/>
4125 </xsd:complexType>
4126 <xsd:simpleType name="ST_VolDepType">
4127     <xsd:restriction base="xsd:string">
4128         <xsd:enumeration value="realTimeData"/>
4129         <xsd:enumeration value="olapFunctions"/>
4130     </xsd:restriction>
4131 </xsd:simpleType>
4132 <xsd:simpleType name="ST_VolValueType">
4133     <xsd:restriction base="xsd:string">
4134         <xsd:enumeration value="b"/>
4135         <xsd:enumeration value="n"/>
4136         <xsd:enumeration value="e"/>
4137         <xsd:enumeration value="s"/>
4138     </xsd:restriction>
4139 </xsd:simpleType>
4140 <xsd:element name="workbook" type="CT_Workbook"/>
4141 <xsd:complexType name="CT_Workbook">
4142     <xsd:sequence>
4143         <xsd:element name="fileVersion" type="CT_FileVersion" minOccurs="0" maxOccurs="1"/>
4144         <xsd:element name="fileSharing" type="CT_FileSharing" minOccurs="0" maxOccurs="1"/>
4145         <xsd:element name="workbookPr" type="CT_WorkbookPr" minOccurs="0" maxOccurs="1"/>
4146         <xsd:element name="workbookProtection" type="CT_WorkbookProtection" minOccurs="0"
4147             maxOccurs="1"/>
4148         <xsd:element name="bookViews" type="CT_BookViews" minOccurs="0" maxOccurs="1"/>
4149         <xsd:element name="sheets" type="CT_Sheets" minOccurs="1" maxOccurs="1"/>
4150         <xsd:element name="functionGroups" type="CT_FunctionGroups" minOccurs="0" maxOccurs="1"/>
4151         <xsd:element name="externalReferences" type="CT_ExternalReferences" minOccurs="0"
4152             maxOccurs="1"/>
4153         <xsd:element name="definedNames" type="CT_DefinedNames" minOccurs="0" maxOccurs="1"/>
4154         <xsd:element name="calcPr" type="CT_CalcPr" minOccurs="0" maxOccurs="1"/>
4155         <xsd:element name="oleSize" type="CT_OleSize" minOccurs="0" maxOccurs="1"/>
4156         <xsd:element name="customWorkbookViews" type="CT_CustomWorkbookViews" minOccurs="0"
4157             maxOccurs="1"/>
4158         <xsd:element name="pivotCaches" type="CT_PivotCaches" minOccurs="0" maxOccurs="1"/>
4159         <xsd:element name="smartTagPr" type="CT_SmartTagPr" minOccurs="0" maxOccurs="1"/>
4160         <xsd:element name="smartTagTypes" type="CT_SmartTagTypes" minOccurs="0" maxOccurs="1"/>
4161         <xsd:element name="webPublishing" type="CT_WebPublishing" minOccurs="0" maxOccurs="1"/>

```



```

4162     <xsd:element name="fileRecoveryPr" type="CT_FileRecoveryPr" minOccurs="0"
4163         maxOccurs="unbounded"/>
4164     <xsd:element name="webPublishObjects" type="CT_WebPublishObjects" minOccurs="0"
4165         maxOccurs="1"/>
4166     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
4167 </xsd:sequence>
4168 <xsd:attribute name="conformance" type="s:ST_ConformanceClass"/>
4169 </xsd:complexType>
4170 <xsd:complexType name="CT_FileVersion">
4171     <xsd:attribute name="appName" type="xsd:string" use="optional"/>
4172     <xsd:attribute name="lastEdited" type="xsd:string" use="optional"/>
4173     <xsd:attribute name="lowestEdited" type="xsd:string" use="optional"/>
4174     <xsd:attribute name="rupBuild" type="xsd:string" use="optional"/>
4175     <xsd:attribute name="codeName" type="s:ST_Guid" use="optional"/>
4176 </xsd:complexType>
4177 <xsd:complexType name="CT_BookViews">
4178     <xsd:sequence>
4179         <xsd:element name="workbookView" type="CT_BookView" minOccurs="1" maxOccurs="unbounded"/>
4180     </xsd:sequence>
4181 </xsd:complexType>
4182 <xsd:complexType name="CT_BookView">
4183     <xsd:sequence>
4184         <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
4185     </xsd:sequence>
4186     <xsd:attribute name="visibility" type="ST_Visibility" use="optional" default="visible"/>
4187     <xsd:attribute name="minimized" type="xsd:boolean" use="optional" default="false"/>
4188     <xsd:attribute name="showHorizontalScroll" type="xsd:boolean" use="optional" default="true"/>
4189     <xsd:attribute name="showVerticalScroll" type="xsd:boolean" use="optional" default="true"/>
4190     <xsd:attribute name="showSheetTabs" type="xsd:boolean" use="optional" default="true"/>
4191     <xsd:attribute name="xWindow" type="xsd:int" use="optional"/>
4192     <xsd:attribute name="yWindow" type="xsd:int" use="optional"/>
4193     <xsd:attribute name="windowWidth" type="xsd:unsignedInt" use="optional"/>
4194     <xsd:attribute name="windowHeight" type="xsd:unsignedInt" use="optional"/>
4195     <xsd:attribute name="tabRatio" type="xsd:unsignedInt" use="optional" default="600"/>
4196     <xsd:attribute name="firstSheet" type="xsd:unsignedInt" use="optional" default="0"/>
4197     <xsd:attribute name="activeTab" type="xsd:unsignedInt" use="optional" default="0"/>
4198     <xsd:attribute name="autoFilterDateGrouping" type="xsd:boolean" use="optional"
4199         default="true"/>
4200 </xsd:complexType>
4201 <xsd:simpleType name="ST_Visibility">
4202     <xsd:restriction base="xsd:string">
4203         <xsd:enumeration value="visible"/>
4204         <xsd:enumeration value="hidden"/>
4205         <xsd:enumeration value="veryHidden"/>
4206     </xsd:restriction>
4207 </xsd:simpleType>
4208 <xsd:complexType name="CT_CustomWorkbookViews">
4209     <xsd:sequence>
4210         <xsd:element name="customWorkbookView" minOccurs="1" maxOccurs="unbounded"
4211             type="CT_CustomWorkbookView"/>
4212     </xsd:sequence>
4213 </xsd:complexType>
4214 <xsd:complexType name="CT_CustomWorkbookView">

```

```

4215     <xsd:sequence>
4216         <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>
4217     </xsd:sequence>
4218     <xsd:attribute name="name" type="s:ST_Xstring" use="required"/>
4219     <xsd:attribute name="guid" type="s:ST_Guid" use="required"/>
4220     <xsd:attribute name="autoUpdate" type="xsd:boolean" use="optional" default="false"/>
4221     <xsd:attribute name="mergeInterval" type="xsd:unsignedInt" use="optional"/>
4222     <xsd:attribute name="changesSavedWin" type="xsd:boolean" use="optional" default="false"/>
4223     <xsd:attribute name="onlySync" type="xsd:boolean" use="optional" default="false"/>
4224     <xsd:attribute name="personalView" type="xsd:boolean" use="optional" default="false"/>
4225     <xsd:attribute name="includePrintSettings" type="xsd:boolean" use="optional" default="true"/>
4226     <xsd:attribute name="includeHiddenRowCol" type="xsd:boolean" use="optional" default="true"/>
4227     <xsd:attribute name="maximized" type="xsd:boolean" use="optional" default="false"/>
4228     <xsd:attribute name="minimized" type="xsd:boolean" use="optional" default="false"/>
4229     <xsd:attribute name="showHorizontalScroll" type="xsd:boolean" use="optional" default="true"/>
4230     <xsd:attribute name="showVerticalScroll" type="xsd:boolean" use="optional" default="true"/>
4231     <xsd:attribute name="showSheetTabs" type="xsd:boolean" use="optional" default="true"/>
4232     <xsd:attribute name="xWindow" type="xsd:int" use="optional" default="0"/>
4233     <xsd:attribute name="yWindow" type="xsd:int" use="optional" default="0"/>
4234     <xsd:attribute name="windowWidth" type="xsd:unsignedInt" use="required"/>
4235     <xsd:attribute name="windowHeight" type="xsd:unsignedInt" use="required"/>
4236     <xsd:attribute name="tabRatio" type="xsd:unsignedInt" use="optional" default="600"/>
4237     <xsd:attribute name="activeSheetId" type="xsd:unsignedInt" use="required"/>
4238     <xsd:attribute name="showFormulaBar" type="xsd:boolean" use="optional" default="true"/>
4239     <xsd:attribute name="showStatusbar" type="xsd:boolean" use="optional" default="true"/>
4240     <xsd:attribute name="showComments" type="ST_Comments" use="optional" default="commIndicator"/>
4241     <xsd:attribute name="showObjects" type="ST_Objects" use="optional" default="all"/>
4242 </xsd:complexType>
4243 <xsd:simpleType name="ST_Comments">
4244     <xsd:restriction base="xsd:string">
4245         <xsd:enumeration value="commNone"/>
4246         <xsd:enumeration value="commIndicator"/>
4247         <xsd:enumeration value="commIndAndComment"/>
4248     </xsd:restriction>
4249 </xsd:simpleType>
4250 <xsd:simpleType name="ST_Objects">
4251     <xsd:restriction base="xsd:string">
4252         <xsd:enumeration value="all"/>
4253         <xsd:enumeration value="placeholders"/>
4254         <xsd:enumeration value="none"/>
4255     </xsd:restriction>
4256 </xsd:simpleType>
4257 <xsd:complexType name="CT_Sheets">
4258     <xsd:sequence>
4259         <xsd:element name="sheet" type="CT_Sheet" minOccurs="1" maxOccurs="unbounded"/>
4260     </xsd:sequence>
4261 </xsd:complexType>
4262 <xsd:complexType name="CT_Sheet">
4263     <xsd:attribute name="name" type="s:ST_Xstring" use="required"/>
4264     <xsd:attribute name="sheetId" type="xsd:unsignedInt" use="required"/>
4265     <xsd:attribute name="state" type="ST_SheetState" use="optional" default="visible"/>
4266     <xsd:attribute ref="r:id" use="required"/>
4267 </xsd:complexType>

```



```

4268 <xsd:simpleType name="ST_SheetState">
4269   <xsd:restriction base="xsd:string">
4270     <xsd:enumeration value="visible"/>
4271     <xsd:enumeration value="hidden"/>
4272     <xsd:enumeration value="veryHidden"/>
4273   </xsd:restriction>
4274 </xsd:simpleType>
4275 <xsd:complexType name="CT_WorkbookPr">
4276   <xsd:attribute name="date1904" type="xsd:boolean" use="optional" default="false"/>
4277   <xsd:attribute name="dateCompatibility" type="xsd:boolean" use="optional" default="true"/>
4278   <xsd:attribute name="showObjects" type="ST_Objects" use="optional" default="all"/>
4279   <xsd:attribute name="showBorderUnselectedTables" type="xsd:boolean" use="optional"
4280     default="true"/>
4281   <xsd:attribute name="filterPrivacy" type="xsd:boolean" use="optional" default="false"/>
4282   <xsd:attribute name="promptedSolutions" type="xsd:boolean" use="optional" default="false"/>
4283   <xsd:attribute name="showInkAnnotation" type="xsd:boolean" use="optional" default="true"/>
4284   <xsd:attribute name="backupFile" type="xsd:boolean" use="optional" default="false"/>
4285   <xsd:attribute name="saveExternalLinkValues" type="xsd:boolean" use="optional"
4286     default="true"/>
4287   <xsd:attribute name="updateLinks" type="ST_UpdateLinks" use="optional" default="userSet"/>
4288   <xsd:attribute name="codeName" type="xsd:string" use="optional"/>
4289   <xsd:attribute name="hidePivotFieldList" type="xsd:boolean" use="optional" default="false"/>
4290   <xsd:attribute name="showPivotChartFilter" type="xsd:boolean" default="false"/>
4291   <xsd:attribute name="allowRefreshQuery" type="xsd:boolean" use="optional" default="false"/>
4292   <xsd:attribute name="publishItems" type="xsd:boolean" use="optional" default="false"/>
4293   <xsd:attribute name="checkCompatibility" type="xsd:boolean" use="optional" default="false"/>
4294   <xsd:attribute name="autoCompressPictures" type="xsd:boolean" use="optional" default="true"/>
4295   <xsd:attribute name="refreshAllConnections" type="xsd:boolean" use="optional"
4296     default="false"/>
4297   <xsd:attribute name="defaultThemeVersion" type="xsd:unsignedInt" use="optional"/>
4298 </xsd:complexType>
4299 <xsd:simpleType name="ST_UpdateLinks">
4300   <xsd:restriction base="xsd:string">
4301     <xsd:enumeration value="userSet"/>
4302     <xsd:enumeration value="never"/>
4303     <xsd:enumeration value="always"/>
4304   </xsd:restriction>
4305 </xsd:simpleType>
4306 <xsd:complexType name="CT_SmartTagPr">
4307   <xsd:attribute name="embed" type="xsd:boolean" use="optional" default="false"/>
4308   <xsd:attribute name="show" type="ST_SmartTagShow" use="optional" default="all"/>
4309 </xsd:complexType>
4310 <xsd:simpleType name="ST_SmartTagShow">
4311   <xsd:restriction base="xsd:string">
4312     <xsd:enumeration value="all"/>
4313     <xsd:enumeration value="none"/>
4314     <xsd:enumeration value="noIndicator"/>
4315   </xsd:restriction>
4316 </xsd:simpleType>
4317 <xsd:complexType name="CT_SmartTagTypes">
4318   <xsd:sequence>
4319     <xsd:element name="smartTagType" type="CT_SmartTagType" minOccurs="0"
4320       maxOccurs="unbounded"/>

```

```

4321     </xsd:sequence>
4322 </xsd:complexType>
4323 <xsd:complexType name="CT_SmartTagType">
4324     <xsd:attribute name="namespaceUri" type="s:ST_Xstring" use="optional"/>
4325     <xsd:attribute name="name" type="s:ST_Xstring" use="optional"/>
4326     <xsd:attribute name="url" type="s:ST_Xstring" use="optional"/>
4327 </xsd:complexType>
4328 <xsd:complexType name="CT_FileRecoveryPr">
4329     <xsd:attribute name="autoRecover" type="xsd:boolean" use="optional" default="true"/>
4330     <xsd:attribute name="crashSave" type="xsd:boolean" use="optional" default="false"/>
4331     <xsd:attribute name="dataExtractLoad" type="xsd:boolean" use="optional" default="false"/>
4332     <xsd:attribute name="repairLoad" type="xsd:boolean" use="optional" default="false"/>
4333 </xsd:complexType>
4334 <xsd:complexType name="CT_CalcPr">
4335     <xsd:attribute name="calcId" type="xsd:unsignedInt"/>
4336     <xsd:attribute name="calcMode" type="ST_CalcMode" use="optional" default="auto"/>
4337     <xsd:attribute name="fullCalcOnLoad" type="xsd:boolean" use="optional" default="false"/>
4338     <xsd:attribute name="refMode" type="ST_RefMode" use="optional" default="A1"/>
4339     <xsd:attribute name="iterate" type="xsd:boolean" use="optional" default="false"/>
4340     <xsd:attribute name="iterateCount" type="xsd:unsignedInt" use="optional" default="100"/>
4341     <xsd:attribute name="iterateDelta" type="xsd:double" use="optional" default="0.001"/>
4342     <xsd:attribute name="fullPrecision" type="xsd:boolean" use="optional" default="true"/>
4343     <xsd:attribute name="calcCompleted" type="xsd:boolean" use="optional" default="true"/>
4344     <xsd:attribute name="calcOnSave" type="xsd:boolean" use="optional" default="true"/>
4345     <xsd:attribute name="concurrentCalc" type="xsd:boolean" use="optional" default="true"/>
4346     <xsd:attribute name="concurrentManualCount" type="xsd:unsignedInt" use="optional"/>
4347     <xsd:attribute name="forceFullCalc" type="xsd:boolean" use="optional"/>
4348 </xsd:complexType>
4349 <xsd:simpleType name="ST_CalcMode">
4350     <xsd:restriction base="xsd:string">
4351         <xsd:enumeration value="manual"/>
4352         <xsd:enumeration value="auto"/>
4353         <xsd:enumeration value="autoNoTable"/>
4354     </xsd:restriction>
4355 </xsd:simpleType>
4356 <xsd:simpleType name="ST_RefMode">
4357     <xsd:restriction base="xsd:string">
4358         <xsd:enumeration value="A1"/>
4359         <xsd:enumeration value="R1C1"/>
4360     </xsd:restriction>
4361 </xsd:simpleType>
4362 <xsd:complexType name="CT_DefinedNames">
4363     <xsd:sequence>
4364         <xsd:element name="definedName" type="CT_DefinedName" minOccurs="0"
4365             maxOccurs="unbounded"/>
4366     </xsd:sequence>
4367 </xsd:complexType>
4368 <xsd:complexType name="CT_DefinedName">
4369     <xsd:simpleContent>
4370         <xsd:extension base="ST_Formula">
4371             <xsd:attribute name="name" type="s:ST_Xstring" use="required"/>
4372             <xsd:attribute name="comment" type="s:ST_Xstring" use="optional"/>
4373             <xsd:attribute name="customMenu" type="s:ST_Xstring" use="optional"/>

```

```

4374     <xsd:attribute name="description" type="s:ST Xstring" use="optional"/>
4375     <xsd:attribute name="help" type="s:ST Xstring" use="optional"/>
4376     <xsd:attribute name="statusBar" type="s:ST Xstring" use="optional"/>
4377     <xsd:attribute name="localSheetId" type="xsd:unsignedInt" use="optional"/>
4378     <xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/>
4379     <xsd:attribute name="function" type="xsd:boolean" use="optional" default="false"/>
4380     <xsd:attribute name="vbProcedure" type="xsd:boolean" use="optional" default="false"/>
4381     <xsd:attribute name="xlm" type="xsd:boolean" use="optional" default="false"/>
4382     <xsd:attribute name="functionGroupId" type="xsd:unsignedInt" use="optional"/>
4383     <xsd:attribute name="shortcutKey" type="s:ST Xstring" use="optional"/>
4384     <xsd:attribute name="publishToServer" type="xsd:boolean" use="optional"
4385         default="false"/>
4386     <xsd:attribute name="workbookParameter" type="xsd:boolean" use="optional"
4387         default="false"/>
4388     </xsd:extension>
4389 </xsd:simpleContent>
4390 </xsd:complexType>
4391 <xsd:complexType name="CT_ExternalReferences">
4392     <xsd:sequence>
4393         <xsd:element name="externalReference" type="CT_ExternalReference" minOccurs="1"
4394             maxOccurs="unbounded"/>
4395     </xsd:sequence>
4396 </xsd:complexType>
4397 <xsd:complexType name="CT_ExternalReference">
4398     <xsd:attribute ref="r:id" use="required"/>
4399 </xsd:complexType>
4400 <xsd:complexType name="CT_SheetBackgroundPicture">
4401     <xsd:attribute ref="r:id" use="required"/>
4402 </xsd:complexType>
4403 <xsd:complexType name="CT_PivotCaches">
4404     <xsd:sequence>
4405         <xsd:element name="pivotCache" type="CT_PivotCache" minOccurs="1" maxOccurs="unbounded"/>
4406     </xsd:sequence>
4407 </xsd:complexType>
4408 <xsd:complexType name="CT_PivotCache">
4409     <xsd:attribute name="cacheId" type="xsd:unsignedInt" use="required"/>
4410     <xsd:attribute ref="r:id" use="required"/>
4411 </xsd:complexType>
4412 <xsd:complexType name="CT_FileSharing">
4413     <xsd:attribute name="readOnlyRecommended" type="xsd:boolean" use="optional" default="false"/>
4414     <xsd:attribute name="userName" type="s:ST Xstring"/>
4415     <xsd:attribute name="reservationPassword" type="ST UnsignedShortHex"/>
4416     <xsd:attribute name="algorithmName" type="s:ST Xstring" use="optional"/>
4417     <xsd:attribute name="hashValue" type="xsd:base64Binary" use="optional"/>
4418     <xsd:attribute name="saltValue" type="xsd:base64Binary" use="optional"/>
4419     <xsd:attribute name="spinCount" type="xsd:unsignedInt" use="optional"/>
4420 </xsd:complexType>
4421 <xsd:complexType name="CT_OleSize">
4422     <xsd:attribute name="ref" type="ST Ref" use="required"/>
4423 </xsd:complexType>
4424 <xsd:complexType name="CT_WorkbookProtection">
4425     <xsd:attribute name="workbookPassword" type="ST UnsignedShortHex" use="optional"/>
4426     <xsd:attribute name="workbookPasswordCharacterSet" type="xsd:string" use="optional"/>

```

```

4427 <xsd:attribute name="revisionsPassword" type="ST UnsignedShortHex" use="optional"/>
4428 <xsd:attribute name="revisionsPasswordCharacterSet" type="xsd:string" use="optional"/>
4429 <xsd:attribute name="lockStructure" type="xsd:boolean" use="optional" default="false"/>
4430 <xsd:attribute name="lockWindows" type="xsd:boolean" use="optional" default="false"/>
4431 <xsd:attribute name="lockRevision" type="xsd:boolean" use="optional" default="false"/>
4432 <xsd:attribute name="revisionsAlgorithmName" type="s:ST Xstring" use="optional"/>
4433 <xsd:attribute name="revisionsHashValue" type="xsd:base64Binary" use="optional"/>
4434 <xsd:attribute name="revisionsSaltValue" type="xsd:base64Binary" use="optional"/>
4435 <xsd:attribute name="revisionsSpinCount" type="xsd:unsignedInt" use="optional"/>
4436 <xsd:attribute name="workbookAlgorithmName" type="s:ST Xstring" use="optional"/>
4437 <xsd:attribute name="workbookHashValue" type="xsd:base64Binary" use="optional"/>
4438 <xsd:attribute name="workbookSaltValue" type="xsd:base64Binary" use="optional"/>
4439 <xsd:attribute name="workbookSpinCount" type="xsd:unsignedInt" use="optional"/>
4440 </xsd:complexType>
4441 <xsd:complexType name="CT_WebPublishing">
4442 <xsd:attribute name="css" type="xsd:boolean" use="optional" default="true"/>
4443 <xsd:attribute name="thicket" type="xsd:boolean" use="optional" default="true"/>
4444 <xsd:attribute name="longFileNames" type="xsd:boolean" use="optional" default="true"/>
4445 <xsd:attribute name="vml" type="xsd:boolean" use="optional" default="false"/>
4446 <xsd:attribute name="allowPng" type="xsd:boolean" use="optional" default="false"/>
4447 <xsd:attribute name="targetScreenSize" type="ST TargetScreenSize" use="optional"
4448     default="800x600"/>
4449 <xsd:attribute name="dpi" type="xsd:unsignedInt" use="optional" default="96"/>
4450 <xsd:attribute name="codePage" type="xsd:unsignedInt" use="optional"/>
4451 <xsd:attribute name="characterSet" type="xsd:string" use="optional"/>
4452 </xsd:complexType>
4453 <xsd:simpleType name="ST_TargetScreenSize">
4454 <xsd:restriction base="xsd:string">
4455 <xsd:enumeration value="544x376"/>
4456 <xsd:enumeration value="640x480"/>
4457 <xsd:enumeration value="720x512"/>
4458 <xsd:enumeration value="800x600"/>
4459 <xsd:enumeration value="1024x768"/>
4460 <xsd:enumeration value="1152x882"/>
4461 <xsd:enumeration value="1152x900"/>
4462 <xsd:enumeration value="1280x1024"/>
4463 <xsd:enumeration value="1600x1200"/>
4464 <xsd:enumeration value="1800x1440"/>
4465 <xsd:enumeration value="1920x1200"/>
4466 </xsd:restriction>
4467 </xsd:simpleType>
4468 <xsd:complexType name="CT_FunctionGroups">
4469 <xsd:sequence maxOccurs="unbounded">
4470 <xsd:element name="functionGroup" type="CT_FunctionGroup" minOccurs="0"/>
4471 </xsd:sequence>
4472 <xsd:attribute name="builtInGroupCount" type="xsd:unsignedInt" default="16" use="optional"/>
4473 </xsd:complexType>
4474 <xsd:complexType name="CT_FunctionGroup">
4475 <xsd:attribute name="name" type="s:ST Xstring"/>
4476 </xsd:complexType>
4477 <xsd:complexType name="CT_WebPublishObjects">
4478 <xsd:sequence>

```

```

4479     <xsd:element name="webPublishObject" type="CT_WebPublishObject" minOccurs="1"
4480         maxOccurs="unbounded"/>
4481     </xsd:sequence>
4482     <xsd:attribute name="count" type="xsd:unsignedInt" use="optional"/>
4483 </xsd:complexType>
4484 <xsd:complexType name="CT_WebPublishObject">
4485     <xsd:attribute name="id" type="xsd:unsignedInt" use="required"/>
4486     <xsd:attribute name="divId" type="s:ST_Xstring" use="required"/>
4487     <xsd:attribute name="sourceObject" type="s:ST_Xstring" use="optional"/>
4488     <xsd:attribute name="destinationFile" type="s:ST_Xstring" use="required"/>
4489     <xsd:attribute name="title" type="s:ST_Xstring" use="optional"/>
4490     <xsd:attribute name="autoRepublish" type="xsd:boolean" use="optional" default="false"/>
4491 </xsd:complexType>
4492 </xsd:schema>

```

### A.3 PresentationML

This schema is available in the file pml.xsd.

```

1  <xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
2      xmlns="http://schemas.openxmlformats.org/presentationml/2006/main"
3      xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main"
4      xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main"
5      xmlns:r="http://schemas.openxmlformats.org/officeDocument/2006/relationships"
6      xmlns:s="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes"
7      elementFormDefault="qualified"
8      targetNamespace="http://schemas.openxmlformats.org/presentationml/2006/main">
9      <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/relationships"
10         schemaLocation="shared-relationshipReference.xsd"/>
11      <xsd:import namespace="http://schemas.openxmlformats.org/drawingml/2006/main" schemaLocation="dml-
12         main.xsd"/>
13      <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes"
14         schemaLocation="shared-commonSimpleTypes.xsd"/>
15      <xsd:simpleType name="ST_TransitionSideDirectionType">
16         <xsd:restriction base="xsd:token">
17             <xsd:enumeration value="l"/>
18             <xsd:enumeration value="u"/>
19             <xsd:enumeration value="r"/>
20             <xsd:enumeration value="d"/>
21         </xsd:restriction>
22     </xsd:simpleType>
23     <xsd:simpleType name="ST_TransitionCornerDirectionType">
24         <xsd:restriction base="xsd:token">
25             <xsd:enumeration value="lu"/>
26             <xsd:enumeration value="ru"/>
27             <xsd:enumeration value="ld"/>
28             <xsd:enumeration value="rd"/>
29         </xsd:restriction>
30     </xsd:simpleType>
31     <xsd:simpleType name="ST_TransitionInOutDirectionType">
32         <xsd:restriction base="xsd:token">
33             <xsd:enumeration value="out"/>
34             <xsd:enumeration value="in"/>

```

```

35     </xsd:restriction>
36 </xsd:simpleType>
37 <xsd:complexType name="CT_SideDirectionTransition">
38     <xsd:attribute name="dir" type="ST_TransitionSideDirectionType" use="optional" default="1"/>
39 </xsd:complexType>
40 <xsd:complexType name="CT_CornerDirectionTransition">
41     <xsd:attribute name="dir" type="ST_TransitionCornerDirectionType" use="optional"
42         default="lu"/>
43 </xsd:complexType>
44 <xsd:simpleType name="ST_TransitionEightDirectionType">
45     <xsd:union memberTypes="ST_TransitionSideDirectionType ST_TransitionCornerDirectionType"/>
46 </xsd:simpleType>
47 <xsd:complexType name="CT_EightDirectionTransition">
48     <xsd:attribute name="dir" type="ST_TransitionEightDirectionType" use="optional" default="1"/>
49 </xsd:complexType>
50 <xsd:complexType name="CT_OrientationTransition">
51     <xsd:attribute name="dir" type="ST_Direction" use="optional" default="horz"/>
52 </xsd:complexType>
53 <xsd:complexType name="CT_InOutTransition">
54     <xsd:attribute name="dir" type="ST_TransitionInOutDirectionType" use="optional"
55         default="out"/>
56 </xsd:complexType>
57 <xsd:complexType name="CT_OptionalBlackTransition">
58     <xsd:attribute name="thruBlk" type="xsd:boolean" use="optional" default="false"/>
59 </xsd:complexType>
60 <xsd:complexType name="CT_SplitTransition">
61     <xsd:attribute name="orient" type="ST_Direction" use="optional" default="horz"/>
62     <xsd:attribute name="dir" type="ST_TransitionInOutDirectionType" use="optional"
63         default="out"/>
64 </xsd:complexType>
65 <xsd:complexType name="CT_WheelTransition">
66     <xsd:attribute name="spokes" type="xsd:unsignedInt" use="optional" default="4"/>
67 </xsd:complexType>
68 <xsd:complexType name="CT_TransitionStartSoundAction">
69     <xsd:sequence>
70         <xsd:element minOccurs="1" maxOccurs="1" name="snd" type="a:CT_EmbeddedWAVAudioFile"/>
71     </xsd:sequence>
72     <xsd:attribute name="loop" type="xsd:boolean" use="optional" default="false"/>
73 </xsd:complexType>
74 <xsd:complexType name="CT_TransitionSoundAction">
75     <xsd:choice minOccurs="1" maxOccurs="1">
76         <xsd:element name="stSnd" type="CT_TransitionStartSoundAction"/>
77         <xsd:element name="endSnd" type="CT_Empty"/>
78     </xsd:choice>
79 </xsd:complexType>
80 <xsd:simpleType name="ST_TransitionSpeed">
81     <xsd:restriction base="xsd:token">
82         <xsd:enumeration value="slow"/>
83         <xsd:enumeration value="med"/>
84         <xsd:enumeration value="fast"/>
85     </xsd:restriction>
86 </xsd:simpleType>
87 <xsd:complexType name="CT_SlideTransition">

```



```

88     <xsd:sequence>
89         <xsd:choice minOccurs="0" maxOccurs="1">
90             <xsd:element name="blinds" type="CT_OrientationTransition"/>
91             <xsd:element name="checker" type="CT_OrientationTransition"/>
92             <xsd:element name="circle" type="CT_Empty"/>
93             <xsd:element name="dissolve" type="CT_Empty"/>
94             <xsd:element name="comb" type="CT_OrientationTransition"/>
95             <xsd:element name="cover" type="CT_EightDirectionTransition"/>
96             <xsd:element name="cut" type="CT_OptionalBlackTransition"/>
97             <xsd:element name="diamond" type="CT_Empty"/>
98             <xsd:element name="fade" type="CT_OptionalBlackTransition"/>
99             <xsd:element name="newsflash" type="CT_Empty"/>
100            <xsd:element name="plus" type="CT_Empty"/>
101            <xsd:element name="pull" type="CT_EightDirectionTransition"/>
102            <xsd:element name="push" type="CT_SideDirectionTransition"/>
103            <xsd:element name="random" type="CT_Empty"/>
104            <xsd:element name="randomBar" type="CT_OrientationTransition"/>
105            <xsd:element name="split" type="CT_SplitTransition"/>
106            <xsd:element name="strips" type="CT_CornerDirectionTransition"/>
107            <xsd:element name="wedge" type="CT_Empty"/>
108            <xsd:element name="wheel" type="CT_WheelTransition"/>
109            <xsd:element name="wipe" type="CT_SideDirectionTransition"/>
110            <xsd:element name="zoom" type="CT_InOutTransition"/>
111        </xsd:choice>
112        <xsd:element name="sndAc" minOccurs="0" maxOccurs="1" type="CT_TransitionSoundAction"/>
113        <xsd:element name="extLst" type="CT_ExtensionListModify" minOccurs="0" maxOccurs="1"/>
114    </xsd:sequence>
115    <xsd:attribute name="spd" type="ST_TransitionSpeed" use="optional" default="fast"/>
116    <xsd:attribute name="advClick" type="xsd:boolean" use="optional" default="true"/>
117    <xsd:attribute name="advTm" type="xsd:unsignedInt" use="optional"/>
118</xsd:complexType>
119<xsd:simpleType name="ST_TLTimeIndefinite">
120    <xsd:restriction base="xsd:token">
121        <xsd:enumeration value="indefinite"/>
122    </xsd:restriction>
123</xsd:simpleType>
124<xsd:simpleType name="ST_TLTime">
125    <xsd:union memberTypes="xsd:unsignedInt ST_TLTimeIndefinite"/>
126</xsd:simpleType>
127<xsd:simpleType name="ST_TLTimeNodeID">
128    <xsd:restriction base="xsd:unsignedInt"/>
129</xsd:simpleType>
130<xsd:complexType name="CT_TLIterateIntervalTime">
131    <xsd:attribute name="val" type="ST_TLTime" use="required"/>
132</xsd:complexType>
133<xsd:complexType name="CT_TLIterateIntervalPercentage">
134    <xsd:attribute name="val" type="a:ST_PositivePercentage" use="required"/>
135</xsd:complexType>
136<xsd:simpleType name="ST_IterateType">
137    <xsd:restriction base="xsd:token">
138        <xsd:enumeration value="el"/>
139        <xsd:enumeration value="wd"/>
140        <xsd:enumeration value="lt"/>

```

```

141     </xsd:restriction>
142 </xsd:simpleType>
143 <xsd:complexType name="CT_TLIterateData">
144     <xsd:choice minOccurs="1" maxOccurs="1">
145         <xsd:element name="tmAbs" type="CT_TLIterateIntervalTime"/>
146         <xsd:element name="tmPct" type="CT_TLIterateIntervalPercentage"/>
147     </xsd:choice>
148     <xsd:attribute name="type" type="ST_IterateType" use="optional" default="e1"/>
149     <xsd:attribute name="backwards" type="xsd:boolean" use="optional" default="false"/>
150 </xsd:complexType>
151 <xsd:complexType name="CT_TLSubShapeId">
152     <xsd:attribute name="spid" type="a:ST_ShapeID" use="required"/>
153 </xsd:complexType>
154 <xsd:complexType name="CT_TLTextTargetElement">
155     <xsd:choice minOccurs="0" maxOccurs="1">
156         <xsd:element name="charRg" type="CT_IndexRange"/>
157         <xsd:element name="pRg" type="CT_IndexRange"/>
158     </xsd:choice>
159 </xsd:complexType>
160 <xsd:simpleType name="ST_TLChartSubelementType">
161     <xsd:restriction base="xsd:token">
162         <xsd:enumeration value="gridLegend"/>
163         <xsd:enumeration value="series"/>
164         <xsd:enumeration value="category"/>
165         <xsd:enumeration value="ptInSeries"/>
166         <xsd:enumeration value="ptInCategory"/>
167     </xsd:restriction>
168 </xsd:simpleType>
169 <xsd:complexType name="CT_TLOleChartTargetElement">
170     <xsd:attribute name="type" type="ST_TLChartSubelementType" use="required"/>
171     <xsd:attribute name="lvl" type="xsd:unsignedInt" use="optional" default="0"/>
172 </xsd:complexType>
173 <xsd:complexType name="CT_TLShapeTargetElement">
174     <xsd:choice minOccurs="0" maxOccurs="1">
175         <xsd:element name="bg" type="CT_Empty"/>
176         <xsd:element name="subSp" type="CT_TLSubShapeId"/>
177         <xsd:element name="oleChartEl" type="CT_TLOleChartTargetElement"/>
178         <xsd:element name="txEl" type="CT_TLTextTargetElement"/>
179         <xsd:element name="graphicEl" type="a:CT_AnimationElementChoice"/>
180     </xsd:choice>
181     <xsd:attribute name="spid" type="a:ST_ShapeID" use="required"/>
182 </xsd:complexType>
183 <xsd:complexType name="CT_TLTimeTargetElement">
184     <xsd:choice minOccurs="1" maxOccurs="1">
185         <xsd:element name="sldTgt" type="CT_Empty"/>
186         <xsd:element name="sndTgt" type="a:CT_EmbeddedWAVAudioFile"/>
187         <xsd:element name="spTgt" type="CT_TLShapeTargetElement"/>
188         <xsd:element name="inkTgt" type="CT_TLSubShapeId"/>
189     </xsd:choice>
190 </xsd:complexType>
191 <xsd:complexType name="CT_TLTriggerTimeNodeID">
192     <xsd:attribute name="val" type="ST_TLTimeNodeID" use="required"/>
193 </xsd:complexType>

```



```

194 <xsd:simpleType name="ST_TLTriggerRuntimeNode">
195   <xsd:restriction base="xsd:token">
196     <xsd:enumeration value="first"/>
197     <xsd:enumeration value="last"/>
198     <xsd:enumeration value="all"/>
199   </xsd:restriction>
200 </xsd:simpleType>
201 <xsd:complexType name="CT_TLTriggerRuntimeNode">
202   <xsd:attribute name="val" type="ST_TLTriggerRuntimeNode" use="required"/>
203 </xsd:complexType>
204 <xsd:simpleType name="ST_TLTriggerEvent">
205   <xsd:restriction base="xsd:token">
206     <xsd:enumeration value="onBegin"/>
207     <xsd:enumeration value="onEnd"/>
208     <xsd:enumeration value="begin"/>
209     <xsd:enumeration value="end"/>
210     <xsd:enumeration value="onClick"/>
211     <xsd:enumeration value="onDbClick"/>
212     <xsd:enumeration value="onMouseOver"/>
213     <xsd:enumeration value="onMouseOut"/>
214     <xsd:enumeration value="onNext"/>
215     <xsd:enumeration value="onPrev"/>
216     <xsd:enumeration value="onStopAudio"/>
217   </xsd:restriction>
218 </xsd:simpleType>
219 <xsd:complexType name="CT_TLTimeCondition">
220   <xsd:choice minOccurs="0" maxOccurs="1">
221     <xsd:element name="tgtEl" type="CT_TLTimeTargetElement"/>
222     <xsd:element name="tn" type="CT_TLTriggerTimeNodeID"/>
223     <xsd:element name="rtn" type="CT_TLTriggerRuntimeNode"/>
224   </xsd:choice>
225   <xsd:attribute name="evt" use="optional" type="ST_TLTriggerEvent"/>
226   <xsd:attribute name="delay" type="ST_TLTime" use="optional"/>
227 </xsd:complexType>
228 <xsd:complexType name="CT_TLTimeConditionList">
229   <xsd:sequence>
230     <xsd:element name="cond" type="CT_TLTimeCondition" minOccurs="1" maxOccurs="unbounded"/>
231   </xsd:sequence>
232 </xsd:complexType>
233 <xsd:complexType name="CT_TimeNodeList">
234   <xsd:choice minOccurs="1" maxOccurs="unbounded">
235     <xsd:element name="par" type="CT_TLTimeNodeParallel"/>
236     <xsd:element name="seq" type="CT_TLTimeNodeSequence"/>
237     <xsd:element name="excl" type="CT_TLTimeNodeExclusive"/>
238     <xsd:element name="anim" type="CT_TLAnimateBehavior"/>
239     <xsd:element name="animClr" type="CT_TLAnimateColorBehavior"/>
240     <xsd:element name="animEffect" type="CT_TLAnimateEffectBehavior"/>
241     <xsd:element name="animMotion" type="CT_TLAnimateMotionBehavior"/>
242     <xsd:element name="animRot" type="CT_TLAnimateRotationBehavior"/>
243     <xsd:element name="animScale" type="CT_TLAnimateScaleBehavior"/>
244     <xsd:element name="cmd" type="CT_TLCommandBehavior"/>
245     <xsd:element name="set" type="CT_TLSetBehavior"/>
246     <xsd:element name="audio" type="CT_TLMediaNodeAudio"/>

```

```

247     <xsd:element name="video" type="CT_TLMediaNodeVideo"/>
248   </xsd:choice>
249 </xsd:complexType>
250 <xsd:simpleType name="ST_TLTimeNodePresetClassType">
251   <xsd:restriction base="xsd:token">
252     <xsd:enumeration value="entr"/>
253     <xsd:enumeration value="exit"/>
254     <xsd:enumeration value="emph"/>
255     <xsd:enumeration value="path"/>
256     <xsd:enumeration value="verb"/>
257     <xsd:enumeration value="mediacall"/>
258   </xsd:restriction>
259 </xsd:simpleType>
260 <xsd:simpleType name="ST_TLTimeNodeRestartType">
261   <xsd:restriction base="xsd:token">
262     <xsd:enumeration value="always"/>
263     <xsd:enumeration value="whenNotActive"/>
264     <xsd:enumeration value="never"/>
265   </xsd:restriction>
266 </xsd:simpleType>
267 <xsd:simpleType name="ST_TLTimeNodeFillType">
268   <xsd:restriction base="xsd:token">
269     <xsd:enumeration value="remove"/>
270     <xsd:enumeration value="freeze"/>
271     <xsd:enumeration value="hold"/>
272     <xsd:enumeration value="transition"/>
273   </xsd:restriction>
274 </xsd:simpleType>
275 <xsd:simpleType name="ST_TLTimeNodeSyncType">
276   <xsd:restriction base="xsd:token">
277     <xsd:enumeration value="canSlip"/>
278     <xsd:enumeration value="locked"/>
279   </xsd:restriction>
280 </xsd:simpleType>
281 <xsd:simpleType name="ST_TLTimeNodeMasterRelation">
282   <xsd:restriction base="xsd:token">
283     <xsd:enumeration value="sameClick"/>
284     <xsd:enumeration value="lastClick"/>
285     <xsd:enumeration value="nextClick"/>
286   </xsd:restriction>
287 </xsd:simpleType>
288 <xsd:simpleType name="ST_TLTimeNodeType">
289   <xsd:restriction base="xsd:token">
290     <xsd:enumeration value="clickEffect"/>
291     <xsd:enumeration value="withEffect"/>
292     <xsd:enumeration value="afterEffect"/>
293     <xsd:enumeration value="mainSeq"/>
294     <xsd:enumeration value="interactiveSeq"/>
295     <xsd:enumeration value="clickPar"/>
296     <xsd:enumeration value="withGroup"/>
297     <xsd:enumeration value="afterGroup"/>
298     <xsd:enumeration value="tmRoot"/>
299   </xsd:restriction>

```

```

300 </xsd:simpleType>
301 <xsd:complexType name="CT_TLCommonTimeNodeData">
302   <xsd:sequence>
303     <xsd:element name="stCondLst" type="CT_TLTimeConditionList" minOccurs="0" maxOccurs="1"/>
304     <xsd:element name="endCondLst" type="CT_TLTimeConditionList" minOccurs="0" maxOccurs="1"/>
305     <xsd:element name="endSync" type="CT_TLTimeCondition" minOccurs="0" maxOccurs="1"/>
306     <xsd:element name="iterate" type="CT_TLIterateData" minOccurs="0" maxOccurs="1"/>
307     <xsd:element name="childTnLst" type="CT_TLTimeNodeList" minOccurs="0" maxOccurs="1"/>
308     <xsd:element name="subTnLst" type="CT_TLTimeNodeList" minOccurs="0" maxOccurs="1"/>
309   </xsd:sequence>
310   <xsd:attribute name="id" type="ST_TLTimeNodeID" use="optional"/>
311   <xsd:attribute name="presetID" type="xsd:int" use="optional"/>
312   <xsd:attribute name="presetClass" type="ST_TLTimeNodePresetClassType" use="optional"/>
313   <xsd:attribute name="presetSubtype" type="xsd:int" use="optional"/>
314   <xsd:attribute name="dur" type="ST_TLTime" use="optional"/>
315   <xsd:attribute name="repeatCount" type="ST_TLTime" use="optional" default="1000"/>
316   <xsd:attribute name="repeatDur" type="ST_TLTime" use="optional"/>
317   <xsd:attribute name="spd" type="a:ST_Percentage" use="optional" default="100%"/>
318   <xsd:attribute name="accel" type="a:ST_PositiveFixedPercentage" use="optional" default="0%"/>
319   <xsd:attribute name="decel" type="a:ST_PositiveFixedPercentage" use="optional" default="0%"/>
320   <xsd:attribute name="autoRev" type="xsd:boolean" use="optional" default="false"/>
321   <xsd:attribute name="restart" type="ST_TLTimeNodeRestartType" use="optional"/>
322   <xsd:attribute name="fill" type="ST_TLTimeNodeFillType" use="optional"/>
323   <xsd:attribute name="syncBehavior" type="ST_TLTimeNodeSyncType" use="optional"/>
324   <xsd:attribute name="tmFilter" type="xsd:string" use="optional"/>
325   <xsd:attribute name="evtFilter" type="xsd:string" use="optional"/>
326   <xsd:attribute name="display" type="xsd:boolean" use="optional"/>
327   <xsd:attribute name="masterRel" type="ST_TLTimeNodeMasterRelation" use="optional"/>
328   <xsd:attribute name="bldLvl" type="xsd:int" use="optional"/>
329   <xsd:attribute name="grpId" type="xsd:unsignedInt" use="optional"/>
330   <xsd:attribute name="afterEffect" type="xsd:boolean" use="optional"/>
331   <xsd:attribute name="nodeType" type="ST_TLTimeNodeType" use="optional"/>
332   <xsd:attribute name="nodePh" type="xsd:boolean" use="optional"/>
333 </xsd:complexType>
334 <xsd:complexType name="CT_TLTimeNodeParallel">
335   <xsd:sequence>
336     <xsd:element name="cTn" type="CT_TLCommonTimeNodeData" minOccurs="1" maxOccurs="1"/>
337   </xsd:sequence>
338 </xsd:complexType>
339 <xsd:simpleType name="ST_TLNextActionType">
340   <xsd:restriction base="xsd:token">
341     <xsd:enumeration value="none"/>
342     <xsd:enumeration value="seek"/>
343   </xsd:restriction>
344 </xsd:simpleType>
345 <xsd:simpleType name="ST_TLPreviousActionType">
346   <xsd:restriction base="xsd:token">
347     <xsd:enumeration value="none"/>
348     <xsd:enumeration value="skipTimed"/>
349   </xsd:restriction>
350 </xsd:simpleType>
351 <xsd:complexType name="CT_TLTimeNodeSequence">
352   <xsd:sequence>

```

```

353     <xsd:element name="cTn" type="CT_TLCommonTimeNodeData" minOccurs="1" maxOccurs="1"/>
354     <xsd:element name="prevCondLst" type="CT_TLTimeConditionList" minOccurs="0"
355       maxOccurs="1"/>
356     <xsd:element name="nextCondLst" type="CT_TLTimeConditionList" minOccurs="0"
357       maxOccurs="1"/>
358   </xsd:sequence>
359   <xsd:attribute name="concurrent" type="xsd:boolean" use="optional"/>
360   <xsd:attribute name="prevAc" type="ST_TLPreviousActionType" use="optional"/>
361   <xsd:attribute name="nextAc" type="ST_TLNextActionType" use="optional"/>
362 </xsd:complexType>
363 <xsd:complexType name="CT_TLTimeNodeExclusive">
364   <xsd:sequence>
365     <xsd:element name="cTn" type="CT_TLCommonTimeNodeData" minOccurs="1" maxOccurs="1"/>
366   </xsd:sequence>
367 </xsd:complexType>
368 <xsd:complexType name="CT_TLBehaviorAttributeNameList">
369   <xsd:sequence>
370     <xsd:element name="attrName" type="xsd:string" minOccurs="1" maxOccurs="unbounded"/>
371   </xsd:sequence>
372 </xsd:complexType>
373 <xsd:simpleType name="ST_TLBehaviorAdditiveType">
374   <xsd:restriction base="xsd:token">
375     <xsd:enumeration value="base"/>
376     <xsd:enumeration value="sum"/>
377     <xsd:enumeration value="repl"/>
378     <xsd:enumeration value="mult"/>
379     <xsd:enumeration value="none"/>
380   </xsd:restriction>
381 </xsd:simpleType>
382 <xsd:simpleType name="ST_TLBehaviorAccumulateType">
383   <xsd:restriction base="xsd:token">
384     <xsd:enumeration value="none"/>
385     <xsd:enumeration value="always"/>
386   </xsd:restriction>
387 </xsd:simpleType>
388 <xsd:simpleType name="ST_TLBehaviorTransformType">
389   <xsd:restriction base="xsd:token">
390     <xsd:enumeration value="pt"/>
391     <xsd:enumeration value="img"/>
392   </xsd:restriction>
393 </xsd:simpleType>
394 <xsd:simpleType name="ST_TLBehaviorOverrideType">
395   <xsd:restriction base="xsd:token">
396     <xsd:enumeration value="normal"/>
397     <xsd:enumeration value="childStyle"/>
398   </xsd:restriction>
399 </xsd:simpleType>
400 <xsd:complexType name="CT_TLCommonBehaviorData">
401   <xsd:sequence>
402     <xsd:element name="cTn" type="CT_TLCommonTimeNodeData" minOccurs="1" maxOccurs="1"/>
403     <xsd:element name="tgtEl" type="CT_TLTimeTargetElement" minOccurs="1" maxOccurs="1"/>
404     <xsd:element name="attrNameLst" type="CT_TLBehaviorAttributeNameList" minOccurs="0"
405       maxOccurs="1"/>

```

```

406     </xsd:sequence>
407     <xsd:attribute name="additive" type="ST_TLBehaviorAdditiveType" use="optional"/>
408     <xsd:attribute name="accumulate" type="ST_TLBehaviorAccumulateType" use="optional"/>
409     <xsd:attribute name="xfrmType" type="ST_TLBehaviorTransformType" use="optional"/>
410     <xsd:attribute name="from" type="xsd:string" use="optional"/>
411     <xsd:attribute name="to" type="xsd:string" use="optional"/>
412     <xsd:attribute name="by" type="xsd:string" use="optional"/>
413     <xsd:attribute name="rctx" type="xsd:string" use="optional"/>
414     <xsd:attribute name="override" type="ST_TLBehaviorOverrideType" use="optional"/>
415 </xsd:complexType>
416 <xsd:complexType name="CT_TLAnimVariantBooleanVal">
417     <xsd:attribute name="val" type="xsd:boolean" use="required"/>
418 </xsd:complexType>
419 <xsd:complexType name="CT_TLAnimVariantIntegerVal">
420     <xsd:attribute name="val" type="xsd:int" use="required"/>
421 </xsd:complexType>
422 <xsd:complexType name="CT_TLAnimVariantFloatVal">
423     <xsd:attribute name="val" type="xsd:float" use="required"/>
424 </xsd:complexType>
425 <xsd:complexType name="CT_TLAnimVariantStringVal">
426     <xsd:attribute name="val" type="xsd:string" use="required"/>
427 </xsd:complexType>
428 <xsd:complexType name="CT_TLAnimVariant">
429     <xsd:choice minOccurs="1" maxOccurs="1">
430         <xsd:element name="boolVal" type="CT_TLAnimVariantBooleanVal"/>
431         <xsd:element name="intVal" type="CT_TLAnimVariantIntegerVal"/>
432         <xsd:element name="fltVal" type="CT_TLAnimVariantFloatVal"/>
433         <xsd:element name="strVal" type="CT_TLAnimVariantStringVal"/>
434         <xsd:element name="clrVal" type="a:Color"/>
435     </xsd:choice>
436 </xsd:complexType>
437 <xsd:simpleType name="ST_TLTimeAnimateValueTime">
438     <xsd:union memberTypes="a:ST_PositiveFixedPercentage ST_TLTimeIndefinite"/>
439 </xsd:simpleType>
440 <xsd:complexType name="CT_TLTimeAnimateValue">
441     <xsd:sequence>
442         <xsd:element name="val" type="CT_TLAnimVariant" minOccurs="0" maxOccurs="1"/>
443     </xsd:sequence>
444     <xsd:attribute name="tm" type="ST_TLTimeAnimateValueTime" use="optional"
445         default="indefinite"/>
446     <xsd:attribute name="fmla" type="xsd:string" use="optional" default=""/>
447 </xsd:complexType>
448 <xsd:complexType name="CT_TLTimeAnimateValueList">
449     <xsd:sequence>
450         <xsd:element name="tav" type="CT_TLTimeAnimateValue" minOccurs="0" maxOccurs="unbounded"/>
451     </xsd:sequence>
452 </xsd:complexType>
453 <xsd:simpleType name="ST_TLAnimateBehaviorCalcMode">
454     <xsd:restriction base="xsd:token">
455         <xsd:enumeration value="discrete"/>
456         <xsd:enumeration value="lin"/>
457         <xsd:enumeration value="fmla"/>
458     </xsd:restriction>

```

```

459 </xsd:simpleType>
460 <xsd:simpleType name="ST_TLAnimateBehaviorValueType">
461   <xsd:restriction base="xsd:token">
462     <xsd:enumeration value="str"/>
463     <xsd:enumeration value="num"/>
464     <xsd:enumeration value="clr"/>
465   </xsd:restriction>
466 </xsd:simpleType>
467 <xsd:complexType name="CT_TLAnimateBehavior">
468   <xsd:sequence>
469     <xsd:element name="cBhvr" type="CT_TLCommonBehaviorData" minOccurs="1" maxOccurs="1"/>
470     <xsd:element name="tavLst" type="CT_TLTimeAnimateValueList" minOccurs="0" maxOccurs="1"/>
471   </xsd:sequence>
472   <xsd:attribute name="by" type="xsd:string" use="optional"/>
473   <xsd:attribute name="from" type="xsd:string" use="optional"/>
474   <xsd:attribute name="to" type="xsd:string" use="optional"/>
475   <xsd:attribute name="calcMode" type="ST_TLAnimateBehaviorCalcMode" use="optional"/>
476   <xsd:attribute name="valueType" type="ST_TLAnimateBehaviorValueType" use="optional"/>
477 </xsd:complexType>
478 <xsd:complexType name="CT_TLByRgbColorTransform">
479   <xsd:attribute name="r" type="a:ST_FixedPercentage" use="required"/>
480   <xsd:attribute name="g" type="a:ST_FixedPercentage" use="required"/>
481   <xsd:attribute name="b" type="a:ST_FixedPercentage" use="required"/>
482 </xsd:complexType>
483 <xsd:complexType name="CT_TLByHslColorTransform">
484   <xsd:attribute name="h" type="a:ST_Angle" use="required"/>
485   <xsd:attribute name="s" type="a:ST_FixedPercentage" use="required"/>
486   <xsd:attribute name="l" type="a:ST_FixedPercentage" use="required"/>
487 </xsd:complexType>
488 <xsd:complexType name="CT_TLByAnimateColorTransform">
489   <xsd:choice minOccurs="1" maxOccurs="1">
490     <xsd:element name="rgb" type="CT_TLByRgbColorTransform"/>
491     <xsd:element name="hsl" type="CT_TLByHslColorTransform"/>
492   </xsd:choice>
493 </xsd:complexType>
494 <xsd:simpleType name="ST_TLAnimateColorSpace">
495   <xsd:restriction base="xsd:token">
496     <xsd:enumeration value="rgb"/>
497     <xsd:enumeration value="hsl"/>
498   </xsd:restriction>
499 </xsd:simpleType>
500 <xsd:simpleType name="ST_TLAnimateColorDirection">
501   <xsd:restriction base="xsd:token">
502     <xsd:enumeration value="cw"/>
503     <xsd:enumeration value="ccw"/>
504   </xsd:restriction>
505 </xsd:simpleType>
506 <xsd:complexType name="CT_TLAnimateColorBehavior">
507   <xsd:sequence>
508     <xsd:element name="cBhvr" type="CT_TLCommonBehaviorData" minOccurs="1" maxOccurs="1"/>
509     <xsd:element name="by" type="CT_TLByAnimateColorTransform" minOccurs="0" maxOccurs="1"/>
510     <xsd:element name="from" type="a:CT_Color" minOccurs="0" maxOccurs="1"/>
511     <xsd:element name="to" type="a:CT_Color" minOccurs="0" maxOccurs="1"/>

```



```

512     </xsd:sequence>
513     <xsd:attribute name="clrSpc" type="ST_TLAnimateColorSpace" use="optional"/>
514     <xsd:attribute name="dir" type="ST_TLAnimateColorDirection" use="optional"/>
515 </xsd:complexType>
516 <xsd:simpleType name="ST_TLAnimateEffectTransition">
517     <xsd:restriction base="xsd:token">
518         <xsd:enumeration value="in"/>
519         <xsd:enumeration value="out"/>
520         <xsd:enumeration value="none"/>
521     </xsd:restriction>
522 </xsd:simpleType>
523 <xsd:complexType name="CT_TLAnimateEffectBehavior">
524     <xsd:sequence>
525         <xsd:element name="cBhvr" type="CT_TLCommonBehaviorData" minOccurs="1" maxOccurs="1"/>
526         <xsd:element name="progress" type="CT_TLAnimVariant" minOccurs="0" maxOccurs="1"/>
527     </xsd:sequence>
528     <xsd:attribute name="transition" type="ST_TLAnimateEffectTransition" use="optional"/>
529     <xsd:attribute name="filter" type="xsd:string" use="optional"/>
530     <xsd:attribute name="prLst" type="xsd:string" use="optional"/>
531 </xsd:complexType>
532 <xsd:simpleType name="ST_TLAnimateMotionBehaviorOrigin">
533     <xsd:restriction base="xsd:token">
534         <xsd:enumeration value="parent"/>
535         <xsd:enumeration value="layout"/>
536     </xsd:restriction>
537 </xsd:simpleType>
538 <xsd:simpleType name="ST_TLAnimateMotionPathEditMode">
539     <xsd:restriction base="xsd:token">
540         <xsd:enumeration value="relative"/>
541         <xsd:enumeration value="fixed"/>
542     </xsd:restriction>
543 </xsd:simpleType>
544 <xsd:complexType name="CT_TLPoint">
545     <xsd:attribute name="x" type="a:ST_Percentage" use="required"/>
546     <xsd:attribute name="y" type="a:ST_Percentage" use="required"/>
547 </xsd:complexType>
548 <xsd:complexType name="CT_TLAnimateMotionBehavior">
549     <xsd:sequence>
550         <xsd:element name="cBhvr" type="CT_TLCommonBehaviorData" minOccurs="1" maxOccurs="1"/>
551         <xsd:element name="by" type="CT_TLPoint" minOccurs="0" maxOccurs="1"/>
552         <xsd:element name="from" type="CT_TLPoint" minOccurs="0" maxOccurs="1"/>
553         <xsd:element name="to" type="CT_TLPoint" minOccurs="0" maxOccurs="1"/>
554         <xsd:element name="rCtr" type="CT_TLPoint" minOccurs="0" maxOccurs="1"/>
555     </xsd:sequence>
556     <xsd:attribute name="origin" type="ST_TLAnimateMotionBehaviorOrigin" use="optional"/>
557     <xsd:attribute name="path" type="xsd:string" use="optional"/>
558     <xsd:attribute name="pathEditMode" type="ST_TLAnimateMotionPathEditMode" use="optional"/>
559     <xsd:attribute name="rAng" type="a:ST_Angle" use="optional"/>
560     <xsd:attribute name="ptsTypes" type="xsd:string" use="optional"/>
561 </xsd:complexType>
562 <xsd:complexType name="CT_TLAnimateRotationBehavior">
563     <xsd:sequence>
564         <xsd:element name="cBhvr" type="CT_TLCommonBehaviorData" minOccurs="1" maxOccurs="1"/>

```

```

565     </xsd:sequence>
566     <xsd:attribute name="by" type="a:ST Angle" use="optional"/>
567     <xsd:attribute name="from" type="a:ST Angle" use="optional"/>
568     <xsd:attribute name="to" type="a:ST Angle" use="optional"/>
569 </xsd:complexType>
570 <xsd:complexType name="CT_TLAnimateScaleBehavior">
571     <xsd:sequence>
572         <xsd:element name="cBhvr" type="CT_TLCommonBehaviorData" minOccurs="1" maxOccurs="1"/>
573         <xsd:element name="by" type="CT_TLPoint" minOccurs="0" maxOccurs="1"/>
574         <xsd:element name="from" type="CT_TLPoint" minOccurs="0" maxOccurs="1"/>
575         <xsd:element name="to" type="CT_TLPoint" minOccurs="0" maxOccurs="1"/>
576     </xsd:sequence>
577     <xsd:attribute name="zoomContents" type="xsd:boolean" use="optional"/>
578 </xsd:complexType>
579 <xsd:simpleType name="ST_TLCommandType">
580     <xsd:restriction base="xsd:token">
581         <xsd:enumeration value="evt"/>
582         <xsd:enumeration value="call"/>
583         <xsd:enumeration value="verb"/>
584     </xsd:restriction>
585 </xsd:simpleType>
586 <xsd:complexType name="CT_TLCommandBehavior">
587     <xsd:sequence>
588         <xsd:element name="cBhvr" type="CT_TLCommonBehaviorData" minOccurs="1" maxOccurs="1"/>
589     </xsd:sequence>
590     <xsd:attribute type="ST_TLCommandType" name="type" use="optional"/>
591     <xsd:attribute name="cmd" type="xsd:string" use="optional"/>
592 </xsd:complexType>
593 <xsd:complexType name="CT_TLSetBehavior">
594     <xsd:sequence>
595         <xsd:element name="cBhvr" type="CT_TLCommonBehaviorData" minOccurs="1" maxOccurs="1"/>
596         <xsd:element name="to" type="CT_TLAnimVariant" minOccurs="0" maxOccurs="1"/>
597     </xsd:sequence>
598 </xsd:complexType>
599 <xsd:complexType name="CT_TLCommonMediaNodeData">
600     <xsd:sequence>
601         <xsd:element name="cTn" type="CT_TLCommonTimeNodeData" minOccurs="1" maxOccurs="1"/>
602         <xsd:element name="tgtEl" type="CT_TLTimeTargetElement" minOccurs="1" maxOccurs="1"/>
603     </xsd:sequence>
604     <xsd:attribute name="vol" type="a:ST PositiveFixedPercentage" default="50%" use="optional"/>
605     <xsd:attribute name="mute" type="xsd:boolean" use="optional" default="false"/>
606     <xsd:attribute name="numSld" type="xsd:unsignedInt" use="optional" default="1"/>
607     <xsd:attribute name="showWhenStopped" type="xsd:boolean" use="optional" default="true"/>
608 </xsd:complexType>
609 <xsd:complexType name="CT_TLMediaNodeAudio">
610     <xsd:sequence>
611         <xsd:element name="cMediaNode" type="CT_TLCommonMediaNodeData" minOccurs="1"
612             maxOccurs="1"/>
613     </xsd:sequence>
614     <xsd:attribute name="isNarration" type="xsd:boolean" use="optional" default="false"/>
615 </xsd:complexType>
616 <xsd:complexType name="CT_TLMediaNodeVideo">
617     <xsd:sequence>

```



```

618      <xsd:element name="cMediaNode" type="CT_TLCommonMediaNodeData" minOccurs="1"
619        maxOccurs="1"/>
620    </xsd:sequence>
621    <xsd:attribute name="fullScr" type="xsd:boolean" use="optional" default="false"/>
622  </xsd:complexType>
623  <xsd:attributeGroup name="AG_TLBuild">
624    <xsd:attribute name="spid" type="a:ST_ShapeID" use="required"/>
625    <xsd:attribute name="grpId" type="xsd:unsignedInt" use="required"/>
626    <xsd:attribute name="uiExpand" type="xsd:boolean" use="optional" default="false"/>
627  </xsd:attributeGroup>
628  <xsd:complexType name="CT_TLTemplate">
629    <xsd:sequence>
630      <xsd:element name="tnLst" type="CT_TimeNodeList" minOccurs="1" maxOccurs="1"/>
631    </xsd:sequence>
632    <xsd:attribute name="lvl" type="xsd:unsignedInt" use="optional" default="0"/>
633  </xsd:complexType>
634  <xsd:complexType name="CT_TLTemplateList">
635    <xsd:sequence>
636      <xsd:element name="tmpl" type="CT_TLTemplate" minOccurs="0" maxOccurs="9"/>
637    </xsd:sequence>
638  </xsd:complexType>
639  <xsd:simpleType name="ST_TLParaBuildType">
640    <xsd:restriction base="xsd:token">
641      <xsd:enumeration value="allAtOnce"/>
642      <xsd:enumeration value="p"/>
643      <xsd:enumeration value="cust"/>
644      <xsd:enumeration value="whole"/>
645    </xsd:restriction>
646  </xsd:simpleType>
647  <xsd:complexType name="CT_TLBuildParagraph">
648    <xsd:sequence>
649      <xsd:element name="tmplLst" type="CT_TLTemplateList" minOccurs="0" maxOccurs="1"/>
650    </xsd:sequence>
651    <xsd:attributeGroup ref="AG_TLBuild"/>
652    <xsd:attribute name="build" type="ST_TLParaBuildType" use="optional" default="whole"/>
653    <xsd:attribute name="bldLvl" type="xsd:unsignedInt" use="optional" default="1"/>
654    <xsd:attribute name="animBg" type="xsd:boolean" use="optional" default="false"/>
655    <xsd:attribute name="autoUpdateAnimBg" type="xsd:boolean" default="true" use="optional"/>
656    <xsd:attribute name="rev" type="xsd:boolean" use="optional" default="false"/>
657    <xsd:attribute name="advAuto" type="ST_TLTime" use="optional" default="indefinite"/>
658  </xsd:complexType>
659  <xsd:simpleType name="ST_TLDiagramBuildType">
660    <xsd:restriction base="xsd:token">
661      <xsd:enumeration value="whole"/>
662      <xsd:enumeration value="depthByNode"/>
663      <xsd:enumeration value="depthByBranch"/>
664      <xsd:enumeration value="breadthByNode"/>
665      <xsd:enumeration value="breadthByLvl"/>
666      <xsd:enumeration value="cw"/>
667      <xsd:enumeration value="cwIn"/>
668      <xsd:enumeration value="cwOut"/>
669      <xsd:enumeration value="ccw"/>
670      <xsd:enumeration value="ccwIn"/>

```

```

671     <xsd:enumeration value="ccwOut"/>
672     <xsd:enumeration value="inByRing"/>
673     <xsd:enumeration value="outByRing"/>
674     <xsd:enumeration value="up"/>
675     <xsd:enumeration value="down"/>
676     <xsd:enumeration value="allAtOnce"/>
677     <xsd:enumeration value="cust"/>
678   </xsd:restriction>
679 </xsd:simpleType>
680 <xsd:complexType name="CT_TLBuildDiagram">
681   <xsd:attributeGroup ref="AG_TLBuild"/>
682   <xsd:attribute name="bld" type="ST_TLDiagramBuildType" use="optional" default="whole"/>
683 </xsd:complexType>
684 <xsd:simpleType name="ST_TLOleChartBuildType">
685   <xsd:restriction base="xsd:token">
686     <xsd:enumeration value="allAtOnce"/>
687     <xsd:enumeration value="series"/>
688     <xsd:enumeration value="category"/>
689     <xsd:enumeration value="seriesEl"/>
690     <xsd:enumeration value="categoryEl"/>
691   </xsd:restriction>
692 </xsd:simpleType>
693 <xsd:complexType name="CT_TLOleBuildChart">
694   <xsd:attributeGroup ref="AG_TLBuild"/>
695   <xsd:attribute name="bld" type="ST_TLOleChartBuildType" use="optional" default="allAtOnce"/>
696   <xsd:attribute name="animBg" type="xsd:boolean" use="optional" default="true"/>
697 </xsd:complexType>
698 <xsd:complexType name="CT_TLGraphicalObjectBuild">
699   <xsd:choice minOccurs="1" maxOccurs="1">
700     <xsd:element name="bldAsOne" type="CT_Empty"/>
701     <xsd:element name="bldSub" type="a:CT_AnimationGraphicalObjectBuildProperties"/>
702   </xsd:choice>
703   <xsd:attributeGroup ref="AG_TLBuild"/>
704 </xsd:complexType>
705 <xsd:complexType name="CT_BuildList">
706   <xsd:choice minOccurs="1" maxOccurs="unbounded">
707     <xsd:element name="bldP" type="CT_TLBuildParagraph"/>
708     <xsd:element name="bldDgm" type="CT_TLBuildDiagram"/>
709     <xsd:element name="bldOleChart" type="CT_TLOleBuildChart"/>
710     <xsd:element name="bldGraphic" type="CT_TLGraphicalObjectBuild"/>
711   </xsd:choice>
712 </xsd:complexType>
713 <xsd:complexType name="CT_SlideTiming">
714   <xsd:sequence>
715     <xsd:element name="tnLst" type="CT_TimeNodeList" minOccurs="0" maxOccurs="1"/>
716     <xsd:element name="bldLst" type="CT_BuildList" minOccurs="0" maxOccurs="1"/>
717     <xsd:element name="extLst" type="CT_ExtensionListModify" minOccurs="0" maxOccurs="1"/>
718   </xsd:sequence>
719 </xsd:complexType>
720 <xsd:complexType name="CT_Empty"/>
721 <xsd:simpleType name="ST_Name">
722   <xsd:restriction base="xsd:string"/>
723 </xsd:simpleType>

```

```

724 <xsd:simpleType name="ST_Direction">
725   <xsd:restriction base="xsd:token">
726     <xsd:enumeration value="horz"/>
727     <xsd:enumeration value="vert"/>
728   </xsd:restriction>
729 </xsd:simpleType>
730 <xsd:simpleType name="ST_Index">
731   <xsd:restriction base="xsd:unsignedInt"/>
732 </xsd:simpleType>
733 <xsd:complexType name="CT_IndexRange">
734   <xsd:attribute name="st" type="ST_Index" use="required"/>
735   <xsd:attribute name="end" type="ST_Index" use="required"/>
736 </xsd:complexType>
737 <xsd:complexType name="CT_SlideRelationshipListEntry">
738   <xsd:attribute ref="r:id" use="required"/>
739 </xsd:complexType>
740 <xsd:complexType name="CT_SlideRelationshipList">
741   <xsd:sequence>
742     <xsd:element name="sld" type="CT_SlideRelationshipListEntry" minOccurs="0"
743       maxOccurs="unbounded"/>
744   </xsd:sequence>
745 </xsd:complexType>
746 <xsd:complexType name="CT_CustomShowId">
747   <xsd:attribute name="id" type="xsd:unsignedInt" use="required"/>
748 </xsd:complexType>
749 <xsd:group name="EG_SlideListChoice">
750   <xsd:choice>
751     <xsd:element name="sldAll" type="CT_Empty"/>
752     <xsd:element name="sldRg" type="CT_IndexRange"/>
753     <xsd:element name="custShow" type="CT_CustomShowId"/>
754   </xsd:choice>
755 </xsd:group>
756 <xsd:complexType name="CT_CustomerData">
757   <xsd:attribute ref="r:id" use="required"/>
758 </xsd:complexType>
759 <xsd:complexType name="CT_TagsData">
760   <xsd:attribute ref="r:id" use="required"/>
761 </xsd:complexType>
762 <xsd:complexType name="CT_CustomerDataList">
763   <xsd:sequence minOccurs="0" maxOccurs="1">
764     <xsd:element name="custData" type="CT_CustomerData" minOccurs="0" maxOccurs="unbounded"/>
765     <xsd:element name="tags" type="CT_TagsData" minOccurs="0" maxOccurs="1"/>
766   </xsd:sequence>
767 </xsd:complexType>
768 <xsd:complexType name="CT_Extension">
769   <xsd:sequence>
770     <xsd:any processContents="lax" minOccurs="0" maxOccurs="unbounded"/>
771   </xsd:sequence>
772   <xsd:attribute name="uri" type="xsd:token" use="required"/>
773 </xsd:complexType>
774 <xsd:group name="EG_ExtensionList">
775   <xsd:sequence>
776     <xsd:element name="ext" type="CT_Extension" minOccurs="0" maxOccurs="unbounded"/>

```

```

777     </xsd:sequence>
778 </xsd:group>
779 <xsd:complexType name="CT_ExtensionList">
780     <xsd:sequence>
781         <xsd:group ref="EG_ExtensionList" minOccurs="0" maxOccurs="1"/>
782     </xsd:sequence>
783 </xsd:complexType>
784 <xsd:complexType name="CT_ExtensionListModify">
785     <xsd:sequence>
786         <xsd:group ref="EG_ExtensionList" minOccurs="0" maxOccurs="1"/>
787     </xsd:sequence>
788     <xsd:attribute name="mod" type="xsd:boolean" use="optional" default="false"/>
789 </xsd:complexType>
790 <xsd:complexType name="CT_CommentAuthor">
791     <xsd:sequence>
792         <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
793     </xsd:sequence>
794     <xsd:attribute name="id" type="xsd:unsignedInt" use="required"/>
795     <xsd:attribute name="name" type="ST_Name" use="required"/>
796     <xsd:attribute name="initials" type="ST_Name" use="required"/>
797     <xsd:attribute name="lastIdx" type="xsd:unsignedInt" use="required"/>
798     <xsd:attribute name="clrIdx" type="xsd:unsignedInt" use="required"/>
799 </xsd:complexType>
800 <xsd:complexType name="CT_CommentAuthorList">
801     <xsd:sequence>
802         <xsd:element name="cmAuthor" type="CT_CommentAuthor" minOccurs="0" maxOccurs="unbounded"/>
803     </xsd:sequence>
804 </xsd:complexType>
805 <xsd:element name="cmAuthorLst" type="CT_CommentAuthorList"/>
806 <xsd:complexType name="CT_Comment">
807     <xsd:sequence>
808         <xsd:element name="pos" type="a:CT_Point2D" minOccurs="1" maxOccurs="1"/>
809         <xsd:element name="text" type="xsd:string" minOccurs="1" maxOccurs="1"/>
810         <xsd:element name="extLst" type="CT_ExtensionListModify" minOccurs="0" maxOccurs="1"/>
811     </xsd:sequence>
812     <xsd:attribute name="authorId" type="xsd:unsignedInt" use="required"/>
813     <xsd:attribute name="dt" type="xsd:dateTime" use="optional"/>
814     <xsd:attribute name="idx" type="ST_Index" use="required"/>
815 </xsd:complexType>
816 <xsd:complexType name="CT_CommentList">
817     <xsd:sequence>
818         <xsd:element name="cm" type="CT_Comment" minOccurs="0" maxOccurs="unbounded"/>
819     </xsd:sequence>
820 </xsd:complexType>
821 <xsd:element name="cmLst" type="CT_CommentList"/>
822 <xsd:attributeGroup name="AG_Ole">
823     <xsd:attribute name="spid" type="a:ST_ShapeID" use="required"/>
824     <xsd:attribute name="name" type="xsd:string" use="optional" default=""/>
825     <xsd:attribute name="showAsIcon" type="xsd:boolean" use="optional" default="false"/>
826     <xsd:attribute ref="r:id" use="optional"/>
827     <xsd:attribute name="imgW" type="a:ST_PositiveCoordinate32" use="optional"/>
828     <xsd:attribute name="imgH" type="a:ST_PositiveCoordinate32" use="optional"/>
829 </xsd:attributeGroup>

```

```

830 <xsd:simpleType name="ST_OleObjectFollowColorScheme">
831   <xsd:restriction base="xsd:token">
832     <xsd:enumeration value="none"/>
833     <xsd:enumeration value="full"/>
834     <xsd:enumeration value="textAndBackground"/>
835   </xsd:restriction>
836 </xsd:simpleType>
837 <xsd:complexType name="CT_OleObjectEmbed">
838   <xsd:sequence>
839     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
840   </xsd:sequence>
841   <xsd:attribute name="followColorScheme" type="ST_OleObjectFollowColorScheme" use="optional"
842     default="none"/>
843 </xsd:complexType>
844 <xsd:complexType name="CT_OleObjectLink">
845   <xsd:sequence>
846     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
847   </xsd:sequence>
848   <xsd:attribute name="updateAutomatic" type="xsd:boolean" use="optional" default="false"/>
849 </xsd:complexType>
850 <xsd:complexType name="CT_OleObject">
851   <xsd:sequence>
852     <xsd:choice minOccurs="1" maxOccurs="1">
853       <xsd:element name="embed" type="CT_OleObjectEmbed"/>
854       <xsd:element name="link" type="CT_OleObjectLink"/>
855     </xsd:choice>
856     <xsd:element name="pic" type="CT_Picture" minOccurs="0" maxOccurs="1"/>
857   </xsd:sequence>
858   <xsd:attributeGroup ref="AG_Ole"/>
859   <xsd:attribute name="progId" type="xsd:string" use="optional"/>
860 </xsd:complexType>
861 <xsd:element name="oleObj" type="CT_OleObject"/>
862 <xsd:complexType name="CT_Control">
863   <xsd:sequence>
864     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
865     <xsd:element name="pic" type="CT_Picture" minOccurs="0" maxOccurs="1"/>
866   </xsd:sequence>
867   <xsd:attributeGroup ref="AG_Ole"/>
868 </xsd:complexType>
869 <xsd:complexType name="CT_ControlList">
870   <xsd:sequence>
871     <xsd:element name="control" type="CT_Control" minOccurs="0" maxOccurs="unbounded"/>
872   </xsd:sequence>
873 </xsd:complexType>
874 <xsd:simpleType name="ST_SlideId">
875   <xsd:restriction base="xsd:unsignedInt">
876     <xsd:minInclusive value="256"/>
877     <xsd:maxExclusive value="2147483648"/>
878   </xsd:restriction>
879 </xsd:simpleType>
880 <xsd:complexType name="CT_SlideIdListEntry">
881   <xsd:sequence>
882     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>

```

```

883     </xsd:sequence>
884     <xsd:attribute name="id" type="ST_SlideId" use="required"/>
885     <xsd:attribute ref="r:id" use="required"/>
886 </xsd:complexType>
887 <xsd:complexType name="CT_SlideIdList">
888     <xsd:sequence>
889         <xsd:element name="sldId" type="CT_SlideIdListEntry" minOccurs="0" maxOccurs="unbounded"/>
890     </xsd:sequence>
891 </xsd:complexType>
892 <xsd:simpleType name="ST_SlideMasterId">
893     <xsd:restriction base="xsd:unsignedInt">
894         <xsd:minInclusive value="2147483648"/>
895     </xsd:restriction>
896 </xsd:simpleType>
897 <xsd:complexType name="CT_SlideMasterIdListEntry">
898     <xsd:sequence>
899         <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
900     </xsd:sequence>
901     <xsd:attribute name="id" type="ST_SlideMasterId" use="optional"/>
902     <xsd:attribute ref="r:id" use="required"/>
903 </xsd:complexType>
904 <xsd:complexType name="CT_SlideMasterIdList">
905     <xsd:sequence>
906         <xsd:element name="sldMasterId" type="CT_SlideMasterIdListEntry" minOccurs="0"
907             maxOccurs="unbounded"/>
908     </xsd:sequence>
909 </xsd:complexType>
910 <xsd:complexType name="CT_NotesMasterIdListEntry">
911     <xsd:sequence>
912         <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
913     </xsd:sequence>
914     <xsd:attribute ref="r:id" use="required"/>
915 </xsd:complexType>
916 <xsd:complexType name="CT_NotesMasterIdList">
917     <xsd:sequence>
918         <xsd:element name="notesMasterId" type="CT_NotesMasterIdListEntry" minOccurs="0"
919             maxOccurs="1"/>
920     </xsd:sequence>
921 </xsd:complexType>
922 <xsd:complexType name="CT_HandoutMasterIdListEntry">
923     <xsd:sequence>
924         <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
925     </xsd:sequence>
926     <xsd:attribute ref="r:id" use="required"/>
927 </xsd:complexType>
928 <xsd:complexType name="CT_HandoutMasterIdList">
929     <xsd:sequence>
930         <xsd:element name="handoutMasterId" type="CT_HandoutMasterIdListEntry" minOccurs="0"
931             maxOccurs="1"/>
932     </xsd:sequence>
933 </xsd:complexType>
934 <xsd:complexType name="CT_EmbeddedFontDataId">
935     <xsd:attribute ref="r:id" use="required"/>

```

```

936 </xsd:complexType>
937 <xsd:complexType name="CT_EmbeddedFontListEntry">
938   <xsd:sequence>
939     <xsd:element name="font" type="a:CT_TextFont" minOccurs="1" maxOccurs="1"/>
940     <xsd:element name="regular" type="CT_EmbeddedFontDataId" minOccurs="0" maxOccurs="1"/>
941     <xsd:element name="bold" type="CT_EmbeddedFontDataId" minOccurs="0" maxOccurs="1"/>
942     <xsd:element name="italic" type="CT_EmbeddedFontDataId" minOccurs="0" maxOccurs="1"/>
943     <xsd:element name="boldItalic" type="CT_EmbeddedFontDataId" minOccurs="0" maxOccurs="1"/>
944   </xsd:sequence>
945 </xsd:complexType>
946 <xsd:complexType name="CT_EmbeddedFontList">
947   <xsd:sequence>
948     <xsd:element name="embeddedFont" type="CT_EmbeddedFontListEntry" minOccurs="0"
949       maxOccurs="unbounded"/>
950   </xsd:sequence>
951 </xsd:complexType>
952 <xsd:complexType name="CT_SmartTags">
953   <xsd:attribute ref="r:id" use="required"/>
954 </xsd:complexType>
955 <xsd:complexType name="CT_CustomShow">
956   <xsd:sequence>
957     <xsd:element name="sldLst" type="CT_SlideRelationshipList" minOccurs="1" maxOccurs="1"/>
958     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
959   </xsd:sequence>
960   <xsd:attribute name="name" type="ST_Name" use="required"/>
961   <xsd:attribute name="id" type="xsd:unsignedInt" use="required"/>
962 </xsd:complexType>
963 <xsd:complexType name="CT_CustomShowList">
964   <xsd:sequence>
965     <xsd:element name="custShow" type="CT_CustomShow" minOccurs="0" maxOccurs="unbounded"/>
966   </xsd:sequence>
967 </xsd:complexType>
968 <xsd:simpleType name="ST_PhotoAlbumLayout">
969   <xsd:restriction base="xsd:token">
970     <xsd:enumeration value="fitToSlide"/>
971     <xsd:enumeration value="1pic"/>
972     <xsd:enumeration value="2pic"/>
973     <xsd:enumeration value="4pic"/>
974     <xsd:enumeration value="1picTitle"/>
975     <xsd:enumeration value="2picTitle"/>
976     <xsd:enumeration value="4picTitle"/>
977   </xsd:restriction>
978 </xsd:simpleType>
979 <xsd:simpleType name="ST_PhotoAlbumFrameShape">
980   <xsd:restriction base="xsd:token">
981     <xsd:enumeration value="frameStyle1"/>
982     <xsd:enumeration value="frameStyle2"/>
983     <xsd:enumeration value="frameStyle3"/>
984     <xsd:enumeration value="frameStyle4"/>
985     <xsd:enumeration value="frameStyle5"/>
986     <xsd:enumeration value="frameStyle6"/>
987     <xsd:enumeration value="frameStyle7"/>
988   </xsd:restriction>

```



```

989 </xsd:simpleType>
990 <xsd:complexType name="CT_PhotoAlbum">
991   <xsd:sequence>
992     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
993   </xsd:sequence>
994   <xsd:attribute name="bw" type="xsd:boolean" use="optional" default="false"/>
995   <xsd:attribute name="showCaptions" type="xsd:boolean" use="optional" default="false"/>
996   <xsd:attribute name="layout" type="ST_PhotoAlbumLayout" use="optional" default="fitToSlide"/>
997   <xsd:attribute name="frame" type="ST_PhotoAlbumFrameShape" use="optional"
998     default="frameStyle1"/>
999 </xsd:complexType>
1000 <xsd:simpleType name="ST_SlideSizeCoordinate">
1001   <xsd:restriction base="a:ST_PositiveCoordinate32">
1002     <xsd:minInclusive value="914400"/>
1003     <xsd:maxInclusive value="51206400"/>
1004   </xsd:restriction>
1005 </xsd:simpleType>
1006 <xsd:simpleType name="ST_SlideSizeType">
1007   <xsd:restriction base="xsd:token">
1008     <xsd:enumeration value="screen4x3"/>
1009     <xsd:enumeration value="letter"/>
1010     <xsd:enumeration value="A4"/>
1011     <xsd:enumeration value="35mm"/>
1012     <xsd:enumeration value="overhead"/>
1013     <xsd:enumeration value="banner"/>
1014     <xsd:enumeration value="custom"/>
1015     <xsd:enumeration value="ledger"/>
1016     <xsd:enumeration value="A3"/>
1017     <xsd:enumeration value="B4ISO"/>
1018     <xsd:enumeration value="B5ISO"/>
1019     <xsd:enumeration value="B4JIS"/>
1020     <xsd:enumeration value="B5JIS"/>
1021     <xsd:enumeration value="hagakiCard"/>
1022     <xsd:enumeration value="screen16x9"/>
1023     <xsd:enumeration value="screen16x10"/>
1024   </xsd:restriction>
1025 </xsd:simpleType>
1026 <xsd:complexType name="CT_SlideSize">
1027   <xsd:attribute name="cx" type="ST_SlideSizeCoordinate" use="required"/>
1028   <xsd:attribute name="cy" type="ST_SlideSizeCoordinate" use="required"/>
1029   <xsd:attribute name="type" type="ST_SlideSizeType" use="optional" default="custom"/>
1030 </xsd:complexType>
1031 <xsd:complexType name="CT_Kinsoku">
1032   <xsd:attribute name="lang" type="xsd:string" use="optional"/>
1033   <xsd:attribute name="invalStChars" type="xsd:string" use="required"/>
1034   <xsd:attribute name="invalEndChars" type="xsd:string" use="required"/>
1035 </xsd:complexType>
1036 <xsd:simpleType name="ST_BookmarkIdSeed">
1037   <xsd:restriction base="xsd:unsignedInt">
1038     <xsd:minInclusive value="1"/>
1039     <xsd:maxExclusive value="2147483648"/>
1040   </xsd:restriction>
1041 </xsd:simpleType>

```



```

1042 <xsd:complexType name="CT_ModifyVerifier">
1043   <xsd:attribute name="algorithmName" type="xsd:string" use="optional"/>
1044   <xsd:attribute name="hashValue" type="xsd:base64Binary" use="optional"/>
1045   <xsd:attribute name="saltValue" type="xsd:base64Binary" use="optional"/>
1046   <xsd:attribute name="spinValue" type="xsd:unsignedInt" use="optional"/>
1047   <xsd:attribute name="cryptProviderType" type="s:ST_CryptProv" use="optional"/>
1048   <xsd:attribute name="cryptAlgorithmClass" type="s:ST_AlgorithmClass" use="optional"/>
1049   <xsd:attribute name="cryptAlgorithmType" type="s:ST_AlgorithmType" use="optional"/>
1050   <xsd:attribute name="cryptAlgorithmSid" type="xsd:unsignedInt" use="optional"/>
1051   <xsd:attribute name="spinCount" type="xsd:unsignedInt" use="optional"/>
1052   <xsd:attribute name="saltData" type="xsd:base64Binary" use="optional"/>
1053   <xsd:attribute name="hashData" type="xsd:base64Binary" use="optional"/>
1054   <xsd:attribute name="cryptProvider" type="xsd:string" use="optional"/>
1055   <xsd:attribute name="algIdExt" type="xsd:unsignedInt" use="optional"/>
1056   <xsd:attribute name="algIdExtSource" type="xsd:string" use="optional"/>
1057   <xsd:attribute name="cryptProviderTypeExt" type="xsd:unsignedInt" use="optional"/>
1058   <xsd:attribute name="cryptProviderTypeExtSource" type="xsd:string" use="optional"/>
1059 </xsd:complexType>
1060 <xsd:complexType name="CT_Presentation">
1061   <xsd:sequence>
1062     <xsd:element name="sldMasterIdList" type="CT_SlideMasterIdList" minOccurs="0"
1063       maxOccurs="1"/>
1064     <xsd:element name="notesMasterIdList" type="CT_NotesMasterIdList" minOccurs="0"
1065       maxOccurs="1"/>
1066     <xsd:element name="handoutMasterIdList" type="CT_HandoutMasterIdList" minOccurs="0"
1067       maxOccurs="1"/>
1068     <xsd:element name="sldIdList" type="CT_SlideIdList" minOccurs="0" maxOccurs="1"/>
1069     <xsd:element name="sldSz" type="CT_SlideSize" minOccurs="0" maxOccurs="1"/>
1070     <xsd:element name="notesSz" type="a:CT_PositiveSize2D" minOccurs="1" maxOccurs="1"/>
1071     <xsd:element name="smartTags" type="CT_SmartTags" minOccurs="0" maxOccurs="1"/>
1072     <xsd:element name="embeddedFontList" type="CT_EmbeddedFontList" minOccurs="0"
1073       maxOccurs="1"/>
1074     <xsd:element name="custShowList" type="CT_CustomShowList" minOccurs="0" maxOccurs="1"/>
1075     <xsd:element name="photoAlbum" type="CT_PhotoAlbum" minOccurs="0" maxOccurs="1"/>
1076     <xsd:element name="custDataList" type="CT_CustomerDataList" minOccurs="0" maxOccurs="1"/>
1077     <xsd:element name="kinsoku" type="CT_Kinsoku" minOccurs="0"/>
1078     <xsd:element name="defaultTextStyle" type="a:CT_TextListStyle" minOccurs="0"
1079       maxOccurs="1"/>
1080     <xsd:element name="modifyVerifier" type="CT_ModifyVerifier" minOccurs="0" maxOccurs="1"/>
1081     <xsd:element name="extList" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
1082   </xsd:sequence>
1083   <xsd:attribute name="serverZoom" type="a:ST_Percentage" use="optional" default="50%"/>
1084   <xsd:attribute name="firstSlideNum" type="xsd:int" use="optional" default="1"/>
1085   <xsd:attribute name="showSpecialPlsOnTitleSld" type="xsd:boolean" use="optional"
1086     default="true"/>
1087   <xsd:attribute name="rtl" type="xsd:boolean" use="optional" default="false"/>
1088   <xsd:attribute name="removePersonalInfoOnSave" type="xsd:boolean" use="optional"
1089     default="false"/>
1090   <xsd:attribute name="compatMode" type="xsd:boolean" use="optional" default="false"/>
1091   <xsd:attribute name="strictFirstAndLastChars" type="xsd:boolean" use="optional"
1092     default="true"/>
1093   <xsd:attribute name="embedTrueTypeFonts" type="xsd:boolean" use="optional" default="false"/>
1094   <xsd:attribute name="saveSubsetFonts" type="xsd:boolean" use="optional" default="false"/>

```

```

1095     <xsd:attribute name="autoCompressPictures" type="xsd:boolean" use="optional" default="true"/>
1096     <xsd:attribute name="bookmarkIdSeed" type="ST_BookmarkIdSeed" use="optional" default="1"/>
1097     <xsd:attribute name="conformance" type="s:ST_ConformanceClass"/>
1098 </xsd:complexType>
1099 <xsd:element name="presentation" type="CT_Presentation"/>
1100 <xsd:complexType name="CT_HtmlPublishProperties">
1101     <xsd:sequence>
1102         <xsd:group ref="EG_SlideListChoice" minOccurs="1" maxOccurs="1"/>
1103         <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
1104     </xsd:sequence>
1105     <xsd:attribute name="showSpeakerNotes" type="xsd:boolean" use="optional" default="true"/>
1106     <xsd:attribute name="target" type="xsd:string" use="optional"/>
1107     <xsd:attribute name="title" type="xsd:string" use="optional" default=""/>
1108     <xsd:attribute ref="r:id" use="required"/>
1109 </xsd:complexType>
1110 <xsd:simpleType name="ST_WebColorType">
1111     <xsd:restriction base="xsd:token">
1112         <xsd:enumeration value="none"/>
1113         <xsd:enumeration value="browser"/>
1114         <xsd:enumeration value="presentationText"/>
1115         <xsd:enumeration value="presentationAccent"/>
1116         <xsd:enumeration value="whiteTextOnBlack"/>
1117         <xsd:enumeration value="blackTextOnWhite"/>
1118     </xsd:restriction>
1119 </xsd:simpleType>
1120 <xsd:simpleType name="ST_WebScreenSize">
1121     <xsd:restriction base="xsd:token">
1122         <xsd:enumeration value="544x376"/>
1123         <xsd:enumeration value="640x480"/>
1124         <xsd:enumeration value="720x512"/>
1125         <xsd:enumeration value="800x600"/>
1126         <xsd:enumeration value="1024x768"/>
1127         <xsd:enumeration value="1152x882"/>
1128         <xsd:enumeration value="1152x900"/>
1129         <xsd:enumeration value="1280x1024"/>
1130         <xsd:enumeration value="1600x1200"/>
1131         <xsd:enumeration value="1800x1400"/>
1132         <xsd:enumeration value="1920x1200"/>
1133     </xsd:restriction>
1134 </xsd:simpleType>
1135 <xsd:simpleType name="ST_WebEncoding">
1136     <xsd:restriction base="xsd:string"/>
1137 </xsd:simpleType>
1138 <xsd:complexType name="CT_WebProperties">
1139     <xsd:sequence>
1140         <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
1141     </xsd:sequence>
1142     <xsd:attribute name="showAnimation" type="xsd:boolean" use="optional" default="false"/>
1143     <xsd:attribute name="resizeGraphics" type="xsd:boolean" use="optional" default="true"/>
1144     <xsd:attribute name="allowPng" type="xsd:boolean" use="optional" default="false"/>
1145     <xsd:attribute name="relyOnVml" type="xsd:boolean" use="optional" default="false"/>
1146     <xsd:attribute name="organizeInFolders" type="xsd:boolean" use="optional" default="true"/>
1147     <xsd:attribute name="useLongFileNames" type="xsd:boolean" use="optional" default="true"/>

```

```

1148     <xsd:attribute name="imgSz" type="ST_WebScreenSize" use="optional" default="800x600"/>
1149     <xsd:attribute name="encoding" type="ST_WebEncoding" use="optional" default=""/>
1150     <xsd:attribute name="clr" type="ST_WebColorType" use="optional" default="whiteTextOnBlack"/>
1151 </xsd:complexType>
1152 <xsd:simpleType name="ST_PrintWhat">
1153     <xsd:restriction base="xsd:token">
1154         <xsd:enumeration value="slides"/>
1155         <xsd:enumeration value="handouts1"/>
1156         <xsd:enumeration value="handouts2"/>
1157         <xsd:enumeration value="handouts3"/>
1158         <xsd:enumeration value="handouts4"/>
1159         <xsd:enumeration value="handouts6"/>
1160         <xsd:enumeration value="handouts9"/>
1161         <xsd:enumeration value="notes"/>
1162         <xsd:enumeration value="outline"/>
1163     </xsd:restriction>
1164 </xsd:simpleType>
1165 <xsd:simpleType name="ST_PrintColorMode">
1166     <xsd:restriction base="xsd:token">
1167         <xsd:enumeration value="bw"/>
1168         <xsd:enumeration value="gray"/>
1169         <xsd:enumeration value="clr"/>
1170     </xsd:restriction>
1171 </xsd:simpleType>
1172 <xsd:complexType name="CT_PrintProperties">
1173     <xsd:sequence>
1174         <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
1175     </xsd:sequence>
1176     <xsd:attribute name="prnWhat" type="ST_PrintWhat" use="optional" default="slides"/>
1177     <xsd:attribute name="clrMode" type="ST_PrintColorMode" use="optional" default="clr"/>
1178     <xsd:attribute name="hiddenSlides" type="xsd:boolean" use="optional" default="false"/>
1179     <xsd:attribute name="scaleToFitPaper" type="xsd:boolean" use="optional" default="false"/>
1180     <xsd:attribute name="frameSlides" type="xsd:boolean" use="optional" default="false"/>
1181 </xsd:complexType>
1182 <xsd:complexType name="CT_ShowInfoBrowse">
1183     <xsd:attribute name="showScrollbar" type="xsd:boolean" use="optional" default="true"/>
1184 </xsd:complexType>
1185 <xsd:complexType name="CT_ShowInfoKiosk">
1186     <xsd:attribute name="restart" type="xsd:unsignedInt" use="optional" default="300000"/>
1187 </xsd:complexType>
1188 <xsd:group name="EG_ShowType">
1189     <xsd:choice>
1190         <xsd:element name="present" type="CT_Empty"/>
1191         <xsd:element name="browse" type="CT_ShowInfoBrowse"/>
1192         <xsd:element name="kiosk" type="CT_ShowInfoKiosk"/>
1193     </xsd:choice>
1194 </xsd:group>
1195 <xsd:complexType name="CT_ShowProperties">
1196     <xsd:sequence minOccurs="0" maxOccurs="1">
1197         <xsd:group ref="EG_ShowType" minOccurs="0" maxOccurs="1"/>
1198         <xsd:group ref="EG_SlideListChoice" minOccurs="0" maxOccurs="1"/>
1199         <xsd:element name="penClr" type="a:CT_Color" minOccurs="0" maxOccurs="1"/>
1200         <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>

```

```

1201     </xsd:sequence>
1202     <xsd:attribute name="loop" type="xsd:boolean" use="optional" default="false"/>
1203     <xsd:attribute name="showNarration" type="xsd:boolean" use="optional" default="false"/>
1204     <xsd:attribute name="showAnimation" type="xsd:boolean" use="optional" default="true"/>
1205     <xsd:attribute name="useTimings" type="xsd:boolean" use="optional" default="true"/>
1206 </xsd:complexType>
1207 <xsd:complexType name="CT_PresentationProperties">
1208     <xsd:sequence>
1209         <xsd:element name="htmlPubPr" type="CT_HtmlPublishProperties" minOccurs="0"
1210             maxOccurs="1"/>
1211         <xsd:element name="webPr" type="CT_WebProperties" minOccurs="0" maxOccurs="1"/>
1212         <xsd:element name="prnPr" type="CT_PrintProperties" minOccurs="0" maxOccurs="1"/>
1213         <xsd:element name="showPr" type="CT_ShowProperties" minOccurs="0" maxOccurs="1"/>
1214         <xsd:element name="clrMru" type="a:CT_ColorMRU" minOccurs="0" maxOccurs="1"/>
1215         <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
1216     </xsd:sequence>
1217 </xsd:complexType>
1218 <xsd:element name="presentationPr" type="CT_PresentationProperties"/>
1219 <xsd:complexType name="CT_HeaderFooter">
1220     <xsd:sequence>
1221         <xsd:element name="extLst" type="CT_ExtensionListModify" minOccurs="0" maxOccurs="1"/>
1222     </xsd:sequence>
1223     <xsd:attribute name="sldNum" type="xsd:boolean" use="optional" default="true"/>
1224     <xsd:attribute name="hdr" type="xsd:boolean" use="optional" default="true"/>
1225     <xsd:attribute name="ftr" type="xsd:boolean" use="optional" default="true"/>
1226     <xsd:attribute name="dt" type="xsd:boolean" use="optional" default="true"/>
1227 </xsd:complexType>
1228 <xsd:simpleType name="ST_PlaceholderType">
1229     <xsd:restriction base="xsd:token">
1230         <xsd:enumeration value="title"/>
1231         <xsd:enumeration value="body"/>
1232         <xsd:enumeration value="ctrTitle"/>
1233         <xsd:enumeration value="subTitle"/>
1234         <xsd:enumeration value="dt"/>
1235         <xsd:enumeration value="sldNum"/>
1236         <xsd:enumeration value="ftr"/>
1237         <xsd:enumeration value="hdr"/>
1238         <xsd:enumeration value="obj"/>
1239         <xsd:enumeration value="chart"/>
1240         <xsd:enumeration value="tbl"/>
1241         <xsd:enumeration value="clipArt"/>
1242         <xsd:enumeration value="dgm"/>
1243         <xsd:enumeration value="media"/>
1244         <xsd:enumeration value="sldImg"/>
1245         <xsd:enumeration value="pic"/>
1246     </xsd:restriction>
1247 </xsd:simpleType>
1248 <xsd:simpleType name="ST_PlaceholderSize">
1249     <xsd:restriction base="xsd:token">
1250         <xsd:enumeration value="full"/>
1251         <xsd:enumeration value="half"/>
1252         <xsd:enumeration value="quarter"/>
1253     </xsd:restriction>

```

```

1254 </xsd:simpleType>
1255 <xsd:complexType name="CT_Placeholder">
1256   <xsd:sequence>
1257     <xsd:element name="extLst" type="CT_ExtensionListModify" minOccurs="0" maxOccurs="1"/>
1258   </xsd:sequence>
1259   <xsd:attribute name="type" type="ST_PlaceholderType" use="optional" default="obj"/>
1260   <xsd:attribute name="orient" type="ST_Direction" use="optional" default="horz"/>
1261   <xsd:attribute name="sz" type="ST_PlaceholderSize" use="optional" default="full"/>
1262   <xsd:attribute name="idx" type="xsd:unsignedInt" use="optional" default="0"/>
1263   <xsd:attribute name="hasCustomPrompt" type="xsd:boolean" use="optional" default="false"/>
1264 </xsd:complexType>
1265 <xsd:complexType name="CT_ApplicationNonVisualDrawingProps">
1266   <xsd:sequence>
1267     <xsd:element name="ph" type="CT_Placeholder" minOccurs="0" maxOccurs="1"/>
1268     <xsd:group ref="a:EG_Media" minOccurs="0" maxOccurs="1"/>
1269     <xsd:element name="custDataLst" type="CT_CustomerDataList" minOccurs="0" maxOccurs="1"/>
1270     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
1271   </xsd:sequence>
1272   <xsd:attribute name="isPhoto" type="xsd:boolean" use="optional" default="false"/>
1273   <xsd:attribute name="userDrawn" type="xsd:boolean" use="optional" default="false"/>
1274 </xsd:complexType>
1275 <xsd:complexType name="CT_ShapeNonVisual">
1276   <xsd:sequence>
1277     <xsd:element name="cNvPr" type="a:CT_NonVisualDrawingProps" minOccurs="1" maxOccurs="1"/>
1278     <xsd:element name="cNvSpPr" type="a:CT_NonVisualDrawingShapeProps" minOccurs="1"
1279       maxOccurs="1"/>
1280     <xsd:element name="nvPr" type="CT_ApplicationNonVisualDrawingProps" minOccurs="1"
1281       maxOccurs="1"/>
1282   </xsd:sequence>
1283 </xsd:complexType>
1284 <xsd:complexType name="CT_Shape">
1285   <xsd:sequence>
1286     <xsd:element name="nvSpPr" type="CT_ShapeNonVisual" minOccurs="1" maxOccurs="1"/>
1287     <xsd:element name="spPr" type="a:CT_ShapeProperties" minOccurs="1" maxOccurs="1"/>
1288     <xsd:element name="style" type="a:CT_ShapeStyle" minOccurs="0" maxOccurs="1"/>
1289     <xsd:element name="txBody" type="a:CT_TextBody" minOccurs="0" maxOccurs="1"/>
1290     <xsd:element name="extLst" type="CT_ExtensionListModify" minOccurs="0" maxOccurs="1"/>
1291   </xsd:sequence>
1292   <xsd:attribute name="useBgFill" type="xsd:boolean" use="optional" default="false"/>
1293 </xsd:complexType>
1294 <xsd:complexType name="CT_ConnectorNonVisual">
1295   <xsd:sequence>
1296     <xsd:element name="cNvPr" type="a:CT_NonVisualDrawingProps" minOccurs="1" maxOccurs="1"/>
1297     <xsd:element name="cNvCxnSpPr" type="a:CT_NonVisualConnectorProperties" minOccurs="1"
1298       maxOccurs="1"/>
1299     <xsd:element name="nvPr" type="CT_ApplicationNonVisualDrawingProps" minOccurs="1"
1300       maxOccurs="1"/>
1301   </xsd:sequence>
1302 </xsd:complexType>
1303 <xsd:complexType name="CT_Connector">
1304   <xsd:sequence>
1305     <xsd:element name="nvCxnSpPr" type="CT_ConnectorNonVisual" minOccurs="1" maxOccurs="1"/>
1306     <xsd:element name="spPr" type="a:CT_ShapeProperties" minOccurs="1" maxOccurs="1"/>

```

```

1307     <xsd:element name="style" type="a:CT_ShapeStyle" minOccurs="0" maxOccurs="1"/>
1308     <xsd:element name="extLst" type="CT_ExtensionListModify" minOccurs="0" maxOccurs="1"/>
1309   </xsd:sequence>
1310 </xsd:complexType>
1311 <xsd:complexType name="CT_PictureNonVisual">
1312   <xsd:sequence>
1313     <xsd:element name="cNvPr" type="a:CT_NonVisualDrawingProps" minOccurs="1" maxOccurs="1"/>
1314     <xsd:element name="cNvPicPr" type="a:CT_NonVisualPictureProperties" minOccurs="1"
1315       maxOccurs="1"/>
1316     <xsd:element name="nvPr" type="CT_ApplicationNonVisualDrawingProps" minOccurs="1"
1317       maxOccurs="1"/>
1318   </xsd:sequence>
1319 </xsd:complexType>
1320 <xsd:complexType name="CT_Picture">
1321   <xsd:sequence>
1322     <xsd:element name="nvPicPr" type="CT_PictureNonVisual" minOccurs="1" maxOccurs="1"/>
1323     <xsd:element name="blipFill" type="a:CT_BlipFillProperties" minOccurs="1" maxOccurs="1"/>
1324     <xsd:element name="spPr" type="a:CT_ShapeProperties" minOccurs="1" maxOccurs="1"/>
1325     <xsd:element name="style" type="a:CT_ShapeStyle" minOccurs="0" maxOccurs="1"/>
1326     <xsd:element name="extLst" type="CT_ExtensionListModify" minOccurs="0" maxOccurs="1"/>
1327   </xsd:sequence>
1328 </xsd:complexType>
1329 <xsd:complexType name="CT_GraphicalObjectFrameNonVisual">
1330   <xsd:sequence>
1331     <xsd:element name="cNvPr" type="a:CT_NonVisualDrawingProps" minOccurs="1" maxOccurs="1"/>
1332     <xsd:element name="cNvGraphicFramePr" type="a:CT_NonVisualGraphicFrameProperties"
1333       minOccurs="1" maxOccurs="1"/>
1334     <xsd:element name="nvPr" type="CT_ApplicationNonVisualDrawingProps" minOccurs="1"
1335       maxOccurs="1"/>
1336   </xsd:sequence>
1337 </xsd:complexType>
1338 <xsd:complexType name="CT_GraphicalObjectFrame">
1339   <xsd:sequence>
1340     <xsd:element name="nvGraphicFramePr" type="CT_GraphicalObjectFrameNonVisual" minOccurs="1"
1341       maxOccurs="1"/>
1342     <xsd:element name="xfrm" type="a:CT_Transform2D" minOccurs="1" maxOccurs="1"/>
1343     <xsd:element ref="a:graphic" minOccurs="1" maxOccurs="1"/>
1344     <xsd:element name="extLst" type="CT_ExtensionListModify" minOccurs="0" maxOccurs="1"/>
1345   </xsd:sequence>
1346   <xsd:attribute name="bwMode" type="a:ST_BlackWhiteMode" use="optional"/>
1347 </xsd:complexType>
1348 <xsd:complexType name="CT_GroupShapeNonVisual">
1349   <xsd:sequence>
1350     <xsd:element name="cNvPr" type="a:CT_NonVisualDrawingProps" minOccurs="1" maxOccurs="1"/>
1351     <xsd:element name="cNvGrpSpPr" type="a:CT_NonVisualGroupDrawingShapeProps" minOccurs="1"
1352       maxOccurs="1"/>
1353     <xsd:element name="nvPr" type="CT_ApplicationNonVisualDrawingProps" minOccurs="1"
1354       maxOccurs="1"/>
1355   </xsd:sequence>
1356 </xsd:complexType>
1357 <xsd:complexType name="CT_GroupShape">
1358   <xsd:sequence>
1359     <xsd:element name="nvGrpSpPr" type="CT_GroupShapeNonVisual" minOccurs="1" maxOccurs="1"/>

```



```

1360     <xsd:element name="grpSpPr" type="a:CT_GroupShapeProperties" minOccurs="1" maxOccurs="1"/>
1361     <xsd:choice minOccurs="0" maxOccurs="unbounded">
1362         <xsd:element name="sp" type="CT_Shape"/>
1363         <xsd:element name="grpSp" type="CT_GroupShape"/>
1364         <xsd:element name="graphicFrame" type="CT_GraphicalObjectFrame"/>
1365         <xsd:element name="cxnSp" type="CT_Connector"/>
1366         <xsd:element name="pic" type="CT_Picture"/>
1367         <xsd:element name="contentPart" type="CT_Rel"/>
1368     </xsd:choice>
1369     <xsd:element name="extLst" type="CT_ExtensionListModify" minOccurs="0" maxOccurs="1"/>
1370 </xsd:sequence>
1371 </xsd:complexType>
1372 <xsd:complexType name="CT_Rel">
1373     <xsd:attribute ref="r:id" use="required"/>
1374 </xsd:complexType>
1375 <xsd:group name="EG_TopLevelSlide">
1376     <xsd:sequence>
1377         <xsd:element name="clrMap" type="a:CT_ColorMapping" minOccurs="1" maxOccurs="1"/>
1378     </xsd:sequence>
1379 </xsd:group>
1380 <xsd:group name="EG_ChildSlide">
1381     <xsd:sequence>
1382         <xsd:element name="clrMapOvr" type="a:CT_ColorMappingOverride" minOccurs="0"
1383             maxOccurs="1"/>
1384     </xsd:sequence>
1385 </xsd:group>
1386 <xsd:attributeGroup name="AG_ChildSlide">
1387     <xsd:attribute name="showMasterSp" type="xsd:boolean" use="optional" default="true"/>
1388     <xsd:attribute name="showMasterPhAnim" type="xsd:boolean" use="optional" default="true"/>
1389 </xsd:attributeGroup>
1390 <xsd:complexType name="CT_BackgroundProperties">
1391     <xsd:sequence>
1392         <xsd:group ref="a:EG_FillProperties" minOccurs="1" maxOccurs="1"/>
1393         <xsd:group ref="a:EG_EffectProperties" minOccurs="0" maxOccurs="1"/>
1394         <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
1395     </xsd:sequence>
1396     <xsd:attribute name="shadeToTitle" type="xsd:boolean" use="optional" default="false"/>
1397 </xsd:complexType>
1398 <xsd:group name="EG_Background">
1399     <xsd:choice>
1400         <xsd:element name="bgPr" type="CT_BackgroundProperties"/>
1401         <xsd:element name="bgRef" type="a:CT_StyleMatrixReference"/>
1402     </xsd:choice>
1403 </xsd:group>
1404 <xsd:complexType name="CT_Background">
1405     <xsd:sequence>
1406         <xsd:group ref="EG_Background"/>
1407     </xsd:sequence>
1408     <xsd:attribute name="bwMode" type="a:ST_BlackWhiteMode" use="optional" default="white"/>
1409 </xsd:complexType>
1410 <xsd:complexType name="CT_CommonSlideData">
1411     <xsd:sequence>
1412         <xsd:element name="bg" type="CT_Background" minOccurs="0" maxOccurs="1"/>

```

```

1413     <xsd:element name="spTree" type="CT_GroupShape" minOccurs="1" maxOccurs="1"/>
1414     <xsd:element name="custDataLst" type="CT_CustomerDataList" minOccurs="0" maxOccurs="1"/>
1415     <xsd:element name="controls" type="CT_ControlList" minOccurs="0" maxOccurs="1"/>
1416     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
1417   </xsd:sequence>
1418   <xsd:attribute name="name" type="xsd:string" use="optional" default=""/>
1419 </xsd:complexType>
1420 <xsd:complexType name="CT_Slide">
1421   <xsd:sequence minOccurs="1" maxOccurs="1">
1422     <xsd:element name="cSld" type="CT_CommonSlideData" minOccurs="1" maxOccurs="1"/>
1423     <xsd:group ref="EG_ChildSlide" minOccurs="0" maxOccurs="1"/>
1424     <xsd:element name="transition" type="CT_SlideTransition" minOccurs="0" maxOccurs="1"/>
1425     <xsd:element name="timing" type="CT_SlideTiming" minOccurs="0" maxOccurs="1"/>
1426     <xsd:element name="extLst" type="CT_ExtensionListModify" minOccurs="0" maxOccurs="1"/>
1427   </xsd:sequence>
1428   <xsd:attributeGroup ref="AG_ChildSlide"/>
1429   <xsd:attribute name="show" type="xsd:boolean" use="optional" default="true"/>
1430 </xsd:complexType>
1431 <xsd:element name="sld" type="CT_Slide"/>
1432 <xsd:simpleType name="ST_SlideLayoutType">
1433   <xsd:restriction base="xsd:token">
1434     <xsd:enumeration value="title"/>
1435     <xsd:enumeration value="tx"/>
1436     <xsd:enumeration value="twoColTx"/>
1437     <xsd:enumeration value="tbl"/>
1438     <xsd:enumeration value="txAndChart"/>
1439     <xsd:enumeration value="chartAndTx"/>
1440     <xsd:enumeration value="dgm"/>
1441     <xsd:enumeration value="chart"/>
1442     <xsd:enumeration value="txAndClipArt"/>
1443     <xsd:enumeration value="clipArtAndTx"/>
1444     <xsd:enumeration value="titleOnly"/>
1445     <xsd:enumeration value="blank"/>
1446     <xsd:enumeration value="txAndObj"/>
1447     <xsd:enumeration value="objAndTx"/>
1448     <xsd:enumeration value="objOnly"/>
1449     <xsd:enumeration value="obj"/>
1450     <xsd:enumeration value="txAndMedia"/>
1451     <xsd:enumeration value="mediaAndTx"/>
1452     <xsd:enumeration value="objOverTx"/>
1453     <xsd:enumeration value="txOverObj"/>
1454     <xsd:enumeration value="txAndTwoObj"/>
1455     <xsd:enumeration value="twoObjAndTx"/>
1456     <xsd:enumeration value="twoObjOverTx"/>
1457     <xsd:enumeration value="fourObj"/>
1458     <xsd:enumeration value="vertTx"/>
1459     <xsd:enumeration value="clipArtAndVertTx"/>
1460     <xsd:enumeration value="vertTitleAndTx"/>
1461     <xsd:enumeration value="vertTitleAndTxOverChart"/>
1462     <xsd:enumeration value="twoObj"/>
1463     <xsd:enumeration value="objAndTwoObj"/>
1464     <xsd:enumeration value="twoObjAndObj"/>
1465     <xsd:enumeration value="cust"/>

```



```

1466     <xsd:enumeration value="secHead"/>
1467     <xsd:enumeration value="twoTxTwoObj"/>
1468     <xsd:enumeration value="objTx"/>
1469     <xsd:enumeration value="picTx"/>
1470   </xsd:restriction>
1471 </xsd:simpleType>
1472 <xsd:complexType name="CT_SlideLayout">
1473   <xsd:sequence minOccurs="1" maxOccurs="1">
1474     <xsd:element name="cSld" type="CT_CommonSlideData" minOccurs="1" maxOccurs="1"/>
1475     <xsd:group ref="EG_ChildSlide" minOccurs="0" maxOccurs="1"/>
1476     <xsd:element name="transition" type="CT_SlideTransition" minOccurs="0" maxOccurs="1"/>
1477     <xsd:element name="timing" type="CT_SlideTiming" minOccurs="0" maxOccurs="1"/>
1478     <xsd:element name="hf" type="CT_HeaderFooter" minOccurs="0" maxOccurs="1"/>
1479     <xsd:element name="extLst" type="CT_ExtensionListModify" minOccurs="0" maxOccurs="1"/>
1480   </xsd:sequence>
1481   <xsd:attributeGroup ref="AG_ChildSlide"/>
1482   <xsd:attribute name="matchingName" type="xsd:string" use="optional" default=""/>
1483   <xsd:attribute name="type" type="ST_SlideLayoutType" use="optional" default="cust"/>
1484   <xsd:attribute name="preserve" type="xsd:boolean" use="optional" default="false"/>
1485   <xsd:attribute name="userDrawn" type="xsd:boolean" use="optional" default="false"/>
1486 </xsd:complexType>
1487 <xsd:element name="sldLayout" type="CT_SlideLayout"/>
1488 <xsd:complexType name="CT_SlideMasterTextStyles">
1489   <xsd:sequence>
1490     <xsd:element name="titleStyle" type="a:CT_TextListStyle" minOccurs="0" maxOccurs="1"/>
1491     <xsd:element name="bodyStyle" type="a:CT_TextListStyle" minOccurs="0" maxOccurs="1"/>
1492     <xsd:element name="otherStyle" type="a:CT_TextListStyle" minOccurs="0" maxOccurs="1"/>
1493     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
1494   </xsd:sequence>
1495 </xsd:complexType>
1496 <xsd:simpleType name="ST_SlideLayoutId">
1497   <xsd:restriction base="xsd:unsignedInt">
1498     <xsd:minInclusive value="2147483648"/>
1499   </xsd:restriction>
1500 </xsd:simpleType>
1501 <xsd:complexType name="CT_SlideLayoutIdListEntry">
1502   <xsd:sequence>
1503     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
1504   </xsd:sequence>
1505   <xsd:attribute name="id" type="ST_SlideLayoutId" use="optional"/>
1506   <xsd:attribute ref="r:id" use="required"/>
1507 </xsd:complexType>
1508 <xsd:complexType name="CT_SlideLayoutIdList">
1509   <xsd:sequence>
1510     <xsd:element name="sldLayoutId" type="CT_SlideLayoutIdListEntry" minOccurs="0"
1511       maxOccurs="unbounded"/>
1512   </xsd:sequence>
1513 </xsd:complexType>
1514 <xsd:complexType name="CT_SlideMaster">
1515   <xsd:sequence minOccurs="1" maxOccurs="1">
1516     <xsd:element name="cSld" type="CT_CommonSlideData" minOccurs="1" maxOccurs="1"/>
1517     <xsd:group ref="EG_TopLevelSlide" minOccurs="1" maxOccurs="1"/>

```

```

1518     <xsd:element name="sldLayoutIdList" type="CT_SlideLayoutIdList" minOccurs="0"
1519         maxOccurs="1"/>
1520     <xsd:element name="transition" type="CT_SlideTransition" minOccurs="0" maxOccurs="1"/>
1521     <xsd:element name="timing" type="CT_SlideTiming" minOccurs="0" maxOccurs="1"/>
1522     <xsd:element name="hf" type="CT_HeaderFooter" minOccurs="0" maxOccurs="1"/>
1523     <xsd:element name="txStyles" type="CT_SlideMasterTextStyles" minOccurs="0" maxOccurs="1"/>
1524     <xsd:element name="extLst" type="CT_ExtensionListModify" minOccurs="0" maxOccurs="1"/>
1525 </xsd:sequence>
1526 <xsd:attribute name="preserve" type="xsd:boolean" use="optional" default="false"/>
1527 </xsd:complexType>
1528 <xsd:element name="sldMaster" type="CT_SlideMaster"/>
1529 <xsd:complexType name="CT_HandoutMaster">
1530     <xsd:sequence>
1531         <xsd:element name="cSld" type="CT_CommonSlideData" minOccurs="1" maxOccurs="1"/>
1532         <xsd:group ref="EG_TopLevelSlide" minOccurs="1" maxOccurs="1"/>
1533         <xsd:element name="hf" type="CT_HeaderFooter" minOccurs="0" maxOccurs="1"/>
1534         <xsd:element name="extLst" type="CT_ExtensionListModify" minOccurs="0" maxOccurs="1"/>
1535     </xsd:sequence>
1536 </xsd:complexType>
1537 <xsd:element name="handoutMaster" type="CT_HandoutMaster"/>
1538 <xsd:complexType name="CT_NotesMaster">
1539     <xsd:sequence>
1540         <xsd:element name="cSld" type="CT_CommonSlideData" minOccurs="1" maxOccurs="1"/>
1541         <xsd:group ref="EG_TopLevelSlide" minOccurs="1" maxOccurs="1"/>
1542         <xsd:element name="hf" type="CT_HeaderFooter" minOccurs="0" maxOccurs="1"/>
1543         <xsd:element name="notesStyle" type="a:CT_TextListStyle" minOccurs="0" maxOccurs="1"/>
1544         <xsd:element name="extLst" type="CT_ExtensionListModify" minOccurs="0" maxOccurs="1"/>
1545     </xsd:sequence>
1546 </xsd:complexType>
1547 <xsd:element name="notesMaster" type="CT_NotesMaster"/>
1548 <xsd:complexType name="CT_NotesSlide">
1549     <xsd:sequence minOccurs="1" maxOccurs="1">
1550         <xsd:element name="cSld" type="CT_CommonSlideData" minOccurs="1" maxOccurs="1"/>
1551         <xsd:group ref="EG_ChildSlide" minOccurs="0" maxOccurs="1"/>
1552         <xsd:element name="extLst" type="CT_ExtensionListModify" minOccurs="0" maxOccurs="1"/>
1553     </xsd:sequence>
1554     <xsd:attributeGroup ref="AG_ChildSlide"/>
1555 </xsd:complexType>
1556 <xsd:element name="notes" type="CT_NotesSlide"/>
1557 <xsd:complexType name="CT_SlideSyncProperties">
1558     <xsd:sequence>
1559         <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
1560     </xsd:sequence>
1561     <xsd:attribute name="serverSldId" type="xsd:string" use="required"/>
1562     <xsd:attribute name="serverSldModifiedTime" type="xsd:dateTime" use="required"/>
1563     <xsd:attribute name="clientInsertedTime" type="xsd:dateTime" use="required"/>
1564 </xsd:complexType>
1565 <xsd:element name="sldSyncPr" type="CT_SlideSyncProperties"/>
1566 <xsd:complexType name="CT_StringTag">
1567     <xsd:attribute name="name" type="xsd:string" use="required"/>
1568     <xsd:attribute name="val" type="xsd:string" use="required"/>
1569 </xsd:complexType>
1570 <xsd:complexType name="CT_TagList">

```

```

1571     <xsd:sequence>
1572         <xsd:element name="tag" type="CT_StringTag" minOccurs="0" maxOccurs="unbounded"/>
1573     </xsd:sequence>
1574 </xsd:complexType>
1575 <xsd:element name="tagLst" type="CT_TagList"/>
1576 <xsd:simpleType name="ST_SplitterBarState">
1577     <xsd:restriction base="xsd:token">
1578         <xsd:enumeration value="minimized"/>
1579         <xsd:enumeration value="restored"/>
1580         <xsd:enumeration value="maximized"/>
1581     </xsd:restriction>
1582 </xsd:simpleType>
1583 <xsd:simpleType name="ST_ViewType">
1584     <xsd:restriction base="xsd:token">
1585         <xsd:enumeration value="sldView"/>
1586         <xsd:enumeration value="sldMasterView"/>
1587         <xsd:enumeration value="notesView"/>
1588         <xsd:enumeration value="handoutView"/>
1589         <xsd:enumeration value="notesMasterView"/>
1590         <xsd:enumeration value="outlineView"/>
1591         <xsd:enumeration value="sldSorterView"/>
1592         <xsd:enumeration value="sldThumbnailView"/>
1593     </xsd:restriction>
1594 </xsd:simpleType>
1595 <xsd:complexType name="CT_NormalViewPortion">
1596     <xsd:attribute name="sz" type="a:ST_PositiveFixedPercentage" use="required"/>
1597     <xsd:attribute name="autoAdjust" type="xsd:boolean" use="optional" default="true"/>
1598 </xsd:complexType>
1599 <xsd:complexType name="CT_NormalViewProperties">
1600     <xsd:sequence>
1601         <xsd:element name="restoredLeft" type="CT_NormalViewPortion" minOccurs="1" maxOccurs="1"/>
1602         <xsd:element name="restoredTop" type="CT_NormalViewPortion" minOccurs="1" maxOccurs="1"/>
1603         <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
1604     </xsd:sequence>
1605     <xsd:attribute name="showOutlineIcons" type="xsd:boolean" use="optional" default="true"/>
1606     <xsd:attribute name="snapVertSplitter" type="xsd:boolean" use="optional" default="false"/>
1607     <xsd:attribute name="vertBarState" type="ST_SplitterBarState" use="optional"
1608         default="restored"/>
1609     <xsd:attribute name="horzBarState" type="ST_SplitterBarState" use="optional"
1610         default="restored"/>
1611     <xsd:attribute name="preferSingleView" type="xsd:boolean" use="optional" default="false"/>
1612 </xsd:complexType>
1613 <xsd:complexType name="CT_CommonViewProperties">
1614     <xsd:sequence>
1615         <xsd:element name="scale" type="a:CT_Scale2D" minOccurs="1" maxOccurs="1"/>
1616         <xsd:element name="origin" type="a:CT_Point2D" minOccurs="1" maxOccurs="1"/>
1617     </xsd:sequence>
1618     <xsd:attribute name="varScale" type="xsd:boolean" use="optional" default="false"/>
1619 </xsd:complexType>
1620 <xsd:complexType name="CT_NotesTextViewProperties">
1621     <xsd:sequence minOccurs="1" maxOccurs="1">
1622         <xsd:element name="cViewPr" type="CT_CommonViewProperties" minOccurs="1" maxOccurs="1"/>
1623         <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>

```

```

1624     </xsd:sequence>
1625 </xsd:complexType>
1626 <xsd:complexType name="CT_OutlineViewSlideEntry">
1627     <xsd:attribute ref="r:id" use="required"/>
1628     <xsd:attribute name="collapse" type="xsd:boolean" use="optional" default="false"/>
1629 </xsd:complexType>
1630 <xsd:complexType name="CT_OutlineViewSlideList">
1631     <xsd:sequence>
1632         <xsd:element name="sld" type="CT_OutlineViewSlideEntry" minOccurs="0"
1633             maxOccurs="unbounded"/>
1634     </xsd:sequence>
1635 </xsd:complexType>
1636 <xsd:complexType name="CT_OutlineViewProperties">
1637     <xsd:sequence minOccurs="1" maxOccurs="1">
1638         <xsd:element name="cViewPr" type="CT_CommonViewProperties" minOccurs="1" maxOccurs="1"/>
1639         <xsd:element name="sldLst" type="CT_OutlineViewSlideList" minOccurs="0" maxOccurs="1"/>
1640         <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
1641     </xsd:sequence>
1642 </xsd:complexType>
1643 <xsd:complexType name="CT_SlideSorterViewProperties">
1644     <xsd:sequence minOccurs="1" maxOccurs="1">
1645         <xsd:element name="cViewPr" type="CT_CommonViewProperties" minOccurs="1" maxOccurs="1"/>
1646         <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
1647     </xsd:sequence>
1648     <xsd:attribute name="showFormatting" type="xsd:boolean" use="optional" default="true"/>
1649 </xsd:complexType>
1650 <xsd:complexType name="CT_Guide">
1651     <xsd:attribute name="orient" type="ST_Direction" use="optional" default="vert"/>
1652     <xsd:attribute name="pos" type="a:ST_Coordinate32" use="optional" default="0"/>
1653 </xsd:complexType>
1654 <xsd:complexType name="CT_GuideList">
1655     <xsd:sequence minOccurs="0" maxOccurs="1">
1656         <xsd:element name="guide" type="CT_Guide" minOccurs="0" maxOccurs="unbounded"/>
1657     </xsd:sequence>
1658 </xsd:complexType>
1659 <xsd:complexType name="CT_CommonSlideViewProperties">
1660     <xsd:sequence>
1661         <xsd:element name="cViewPr" type="CT_CommonViewProperties" minOccurs="1" maxOccurs="1"/>
1662         <xsd:element name="guideLst" type="CT_GuideList" minOccurs="0" maxOccurs="1"/>
1663     </xsd:sequence>
1664     <xsd:attribute name="snapToGrid" type="xsd:boolean" use="optional" default="true"/>
1665     <xsd:attribute name="snapToObjects" type="xsd:boolean" use="optional" default="false"/>
1666     <xsd:attribute name="showGuides" type="xsd:boolean" use="optional" default="false"/>
1667 </xsd:complexType>
1668 <xsd:complexType name="CT_SlideViewProperties">
1669     <xsd:sequence>
1670         <xsd:element name="cSldViewPr" type="CT_CommonSlideViewProperties" minOccurs="1"
1671             maxOccurs="1"/>
1672         <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
1673     </xsd:sequence>
1674 </xsd:complexType>
1675 <xsd:complexType name="CT_NotesViewProperties">
1676     <xsd:sequence>

```

```

1677     <xsd:element name="cSldViewPr" type="CT_CommonSlideViewProperties" minOccurs="1"
1678         maxOccurs="1"/>
1679     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
1680 </xsd:sequence>
1681 </xsd:complexType>
1682 <xsd:complexType name="CT_ViewProperties">
1683     <xsd:sequence minOccurs="0" maxOccurs="1">
1684         <xsd:element name="normalViewPr" type="CT_NormalViewProperties" minOccurs="0"
1685             maxOccurs="1"/>
1686         <xsd:element name="slideViewPr" type="CT_SlideViewProperties" minOccurs="0"
1687             maxOccurs="1"/>
1688         <xsd:element name="outlineViewPr" type="CT_OutlineViewProperties" minOccurs="0"
1689             maxOccurs="1"/>
1690         <xsd:element name="notesTextViewPr" type="CT_NotesTextViewProperties" minOccurs="0"
1691             maxOccurs="1"/>
1692         <xsd:element name="sorterViewPr" type="CT_SlideSorterViewProperties" minOccurs="0"
1693             maxOccurs="1"/>
1694         <xsd:element name="notesViewPr" type="CT_NotesViewProperties" minOccurs="0"
1695             maxOccurs="1"/>
1696         <xsd:element name="gridSpacing" type="a:CT_PositiveSize2D" minOccurs="0" maxOccurs="1"/>
1697         <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
1698     </xsd:sequence>
1699     <xsd:attribute name="lastView" type="ST_ViewType" use="optional" default="sldView"/>
1700     <xsd:attribute name="showComments" type="xsd:boolean" use="optional" default="true"/>
1701 </xsd:complexType>
1702 <xsd:element name="viewPr" type="CT_ViewProperties"/>
1703 </xsd:schema>

```

## A.4 DrawingML - Framework

### A.4.1 DrawingML - Main

This schema is available in the file dml-main.xsd.

```

1 <xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
2   xmlns:r="http://schemas.openxmlformats.org/officeDocument/2006/relationships"
3   xmlns:s="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes"
4   xmlns="http://schemas.openxmlformats.org/drawingml/2006/main"
5   targetNamespace="http://schemas.openxmlformats.org/drawingml/2006/main"
6   elementFormDefault="qualified">
7   <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/relationships"
8       schemaLocation="shared-relationshipReference.xsd"/>
9   <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes"
10       schemaLocation="shared-commonSimpleTypes.xsd"/>
11   <xsd:import namespace="http://schemas.openxmlformats.org/drawingml/2006/diagram"
12       schemaLocation="dml-diagram.xsd"/>
13   <xsd:import namespace="http://schemas.openxmlformats.org/drawingml/2006/chart"
14       schemaLocation="dml-chart.xsd"/>
15   <xsd:import namespace="http://schemas.openxmlformats.org/drawingml/2006/picture"
16       schemaLocation="dml-picture.xsd"/>
17   <xsd:import namespace="http://schemas.openxmlformats.org/drawingml/2006/compatibility"
18       schemaLocation="dml-compatibility.xsd"/>

```

```

19 <xsd:import namespace="http://schemas.openxmlformats.org/drawingml/2006/lockedCanvas"
20   schemaLocation="dml-lockedCanvas.xsd"/>
21 <xsd:complexType name="CT_AudioFile">
22   <xsd:sequence>
23     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
24   </xsd:sequence>
25   <xsd:attribute ref="r:link" use="required"/>
26   <xsd:attribute name="contentType" type="xsd:string" use="optional"/>
27 </xsd:complexType>
28 <xsd:complexType name="CT_VideoFile">
29   <xsd:sequence>
30     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
31   </xsd:sequence>
32   <xsd:attribute ref="r:link" use="required"/>
33   <xsd:attribute name="contentType" type="xsd:string" use="optional"/>
34 </xsd:complexType>
35 <xsd:complexType name="CT_QuickTimeFile">
36   <xsd:sequence>
37     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
38   </xsd:sequence>
39   <xsd:attribute ref="r:link" use="required"/>
40 </xsd:complexType>
41 <xsd:complexType name="CT_AudioCDTime">
42   <xsd:attribute name="track" type="xsd:unsignedByte" use="required"/>
43   <xsd:attribute name="time" type="xsd:unsignedInt" use="optional" default="0"/>
44 </xsd:complexType>
45 <xsd:complexType name="CT_AudioCD">
46   <xsd:sequence>
47     <xsd:element name="st" type="CT_AudioCDTime" minOccurs="1" maxOccurs="1"/>
48     <xsd:element name="end" type="CT_AudioCDTime" minOccurs="1" maxOccurs="1"/>
49     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
50   </xsd:sequence>
51 </xsd:complexType>
52 <xsd:group name="EG_Media">
53   <xsd:choice>
54     <xsd:element name="audioCd" type="CT_AudioCD"/>
55     <xsd:element name="wavAudioFile" type="CT_EmbeddedWAVAudioFile"/>
56     <xsd:element name="audioFile" type="CT_AudioFile"/>
57     <xsd:element name="videoFile" type="CT_VideoFile"/>
58     <xsd:element name="quickTimeFile" type="CT_QuickTimeFile"/>
59   </xsd:choice>
60 </xsd:group>
61 <xsd:element name="videoFile" type="CT_VideoFile"/>
62 <xsd:simpleType name="ST_StyleMatrixColumnIndex">
63   <xsd:restriction base="xsd:unsignedInt"/>
64 </xsd:simpleType>
65 <xsd:simpleType name="ST_FontCollectionIndex">
66   <xsd:restriction base="xsd:token">
67     <xsd:enumeration value="major"/>
68     <xsd:enumeration value="minor"/>
69     <xsd:enumeration value="none"/>
70   </xsd:restriction>
71 </xsd:simpleType>

```



```

72 <xsd:simpleType name="ST_ColorSchemeIndex">
73   <xsd:restriction base="xsd:token">
74     <xsd:enumeration value="dk1"/>
75     <xsd:enumeration value="lt1"/>
76     <xsd:enumeration value="dk2"/>
77     <xsd:enumeration value="lt2"/>
78     <xsd:enumeration value="accent1"/>
79     <xsd:enumeration value="accent2"/>
80     <xsd:enumeration value="accent3"/>
81     <xsd:enumeration value="accent4"/>
82     <xsd:enumeration value="accent5"/>
83     <xsd:enumeration value="accent6"/>
84     <xsd:enumeration value="hlink"/>
85     <xsd:enumeration value="folHlink"/>
86   </xsd:restriction>
87 </xsd:simpleType>
88 <xsd:complexType name="CT_ColorScheme">
89   <xsd:sequence>
90     <xsd:element name="dk1" type="CT_Color" minOccurs="1" maxOccurs="1"/>
91     <xsd:element name="lt1" type="CT_Color" minOccurs="1" maxOccurs="1"/>
92     <xsd:element name="dk2" type="CT_Color" minOccurs="1" maxOccurs="1"/>
93     <xsd:element name="lt2" type="CT_Color" minOccurs="1" maxOccurs="1"/>
94     <xsd:element name="accent1" type="CT_Color" minOccurs="1" maxOccurs="1"/>
95     <xsd:element name="accent2" type="CT_Color" minOccurs="1" maxOccurs="1"/>
96     <xsd:element name="accent3" type="CT_Color" minOccurs="1" maxOccurs="1"/>
97     <xsd:element name="accent4" type="CT_Color" minOccurs="1" maxOccurs="1"/>
98     <xsd:element name="accent5" type="CT_Color" minOccurs="1" maxOccurs="1"/>
99     <xsd:element name="accent6" type="CT_Color" minOccurs="1" maxOccurs="1"/>
100    <xsd:element name="hlink" type="CT_Color" minOccurs="1" maxOccurs="1"/>
101    <xsd:element name="folHlink" type="CT_Color" minOccurs="1" maxOccurs="1"/>
102    <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
103  </xsd:sequence>
104  <xsd:attribute name="name" type="xsd:string" use="required"/>
105 </xsd:complexType>
106 <xsd:complexType name="CT_CustomColor">
107   <xsd:sequence>
108     <xsd:group ref="EG_ColorChoice" minOccurs="1" maxOccurs="1"/>
109   </xsd:sequence>
110   <xsd:attribute name="name" type="xsd:string" use="optional" default=""/>
111 </xsd:complexType>
112 <xsd:complexType name="CT_SupplementalFont">
113   <xsd:attribute name="script" type="xsd:string" use="required"/>
114   <xsd:attribute name="typeface" type="ST_TextTypeface" use="required"/>
115 </xsd:complexType>
116 <xsd:complexType name="CT_CustomColorList">
117   <xsd:sequence>
118     <xsd:element name="custClr" type="CT_CustomColor" minOccurs="0" maxOccurs="unbounded"/>
119   </xsd:sequence>
120 </xsd:complexType>
121 <xsd:complexType name="CT_FontCollection">
122   <xsd:sequence>
123     <xsd:element name="latin" type="CT_TextFont" minOccurs="1" maxOccurs="1"/>
124     <xsd:element name="ea" type="CT_TextFont" minOccurs="1" maxOccurs="1"/>

```

```

125     <xsd:element name="cs" type="CT_TextFont" minOccurs="1" maxOccurs="1"/>
126     <xsd:element name="font" type="CT_SupplementalFont" minOccurs="0" maxOccurs="unbounded"/>
127     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
128   </xsd:sequence>
129 </xsd:complexType>
130 <xsd:complexType name="CT_EffectStyleItem">
131   <xsd:sequence>
132     <xsd:group ref="EG_EffectProperties" minOccurs="1" maxOccurs="1"/>
133     <xsd:element name="scene3d" type="CT_Scene3D" minOccurs="0" maxOccurs="1"/>
134     <xsd:element name="sp3d" type="CT_Shape3D" minOccurs="0" maxOccurs="1"/>
135   </xsd:sequence>
136 </xsd:complexType>
137 <xsd:complexType name="CT_FontScheme">
138   <xsd:sequence>
139     <xsd:element name="majorFont" type="CT_FontCollection" minOccurs="1" maxOccurs="1"/>
140     <xsd:element name="minorFont" type="CT_FontCollection" minOccurs="1" maxOccurs="1"/>
141     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
142   </xsd:sequence>
143   <xsd:attribute name="name" type="xsd:string" use="required"/>
144 </xsd:complexType>
145 <xsd:complexType name="CT_FillStyleList">
146   <xsd:sequence>
147     <xsd:group ref="EG_FillProperties" minOccurs="3" maxOccurs="unbounded"/>
148   </xsd:sequence>
149 </xsd:complexType>
150 <xsd:complexType name="CT_LineStyleList">
151   <xsd:sequence>
152     <xsd:element name="ln" type="CT_LineProperties" minOccurs="3" maxOccurs="unbounded"/>
153   </xsd:sequence>
154 </xsd:complexType>
155 <xsd:complexType name="CT_EffectStyleList">
156   <xsd:sequence>
157     <xsd:element name="effectStyle" type="CT_EffectStyleItem" minOccurs="3"
158       maxOccurs="unbounded"/>
159   </xsd:sequence>
160 </xsd:complexType>
161 <xsd:complexType name="CT_BackgroundFillStyleList">
162   <xsd:sequence>
163     <xsd:group ref="EG_FillProperties" minOccurs="3" maxOccurs="unbounded"/>
164   </xsd:sequence>
165 </xsd:complexType>
166 <xsd:complexType name="CT_StyleMatrix">
167   <xsd:sequence>
168     <xsd:element name="fillStyleLst" type="CT_FillStyleList" minOccurs="1" maxOccurs="1"/>
169     <xsd:element name="lnStyleLst" type="CT_LineStyleList" minOccurs="1" maxOccurs="1"/>
170     <xsd:element name="effectStyleLst" type="CT_EffectStyleList" minOccurs="1" maxOccurs="1"/>
171     <xsd:element name="bgFillStyleLst" type="CT_BackgroundFillStyleList" minOccurs="1"
172       maxOccurs="1"/>
173   </xsd:sequence>
174   <xsd:attribute name="name" type="xsd:string" use="optional" default=""/>
175 </xsd:complexType>
176 <xsd:complexType name="CT_BaseStyles">
177   <xsd:sequence>

```



```

178     <xsd:element name="clrScheme" type="CT_ColorScheme" minOccurs="1" maxOccurs="1"/>
179     <xsd:element name="fontScheme" type="CT_FontScheme" minOccurs="1" maxOccurs="1"/>
180     <xsd:element name="fmtScheme" type="CT_StyleMatrix" minOccurs="1" maxOccurs="1"/>
181     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
182   </xsd:sequence>
183 </xsd:complexType>
184 <xsd:complexType name="CT_OfficeArtExtension">
185   <xsd:sequence>
186     <xsd:any processContents="lax" minOccurs="0" maxOccurs="unbounded"/>
187   </xsd:sequence>
188   <xsd:attribute name="uri" type="xsd:token" use="required"/>
189 </xsd:complexType>
190 <xsd:simpleType name="ST_Coordinate">
191   <xsd:union memberTypes="ST_CoordinateUnqualified s:ST_UniversalMeasure"/>
192 </xsd:simpleType>
193 <xsd:simpleType name="ST_CoordinateUnqualified">
194   <xsd:restriction base="xsd:long">
195     <xsd:minInclusive value="-27273042329600"/>
196     <xsd:maxInclusive value="27273042316900"/>
197   </xsd:restriction>
198 </xsd:simpleType>
199 <xsd:simpleType name="ST_Coordinate32">
200   <xsd:union memberTypes="ST_Coordinate32Unqualified s:ST_UniversalMeasure"/>
201 </xsd:simpleType>
202 <xsd:simpleType name="ST_Coordinate32Unqualified">
203   <xsd:restriction base="xsd:int"/>
204 </xsd:simpleType>
205 <xsd:simpleType name="ST_PositiveCoordinate">
206   <xsd:restriction base="xsd:long">
207     <xsd:minInclusive value="0"/>
208     <xsd:maxInclusive value="27273042316900"/>
209   </xsd:restriction>
210 </xsd:simpleType>
211 <xsd:simpleType name="ST_PositiveCoordinate32">
212   <xsd:restriction base="ST_Coordinate32Unqualified">
213     <xsd:minInclusive value="0"/>
214   </xsd:restriction>
215 </xsd:simpleType>
216 <xsd:simpleType name="ST_Angle">
217   <xsd:restriction base="xsd:int"/>
218 </xsd:simpleType>
219 <xsd:complexType name="CT_Angle">
220   <xsd:attribute name="val" type="ST_Angle" use="required"/>
221 </xsd:complexType>
222 <xsd:simpleType name="ST_FixedAngle">
223   <xsd:restriction base="ST_Angle">
224     <xsd:minExclusive value="-5400000"/>
225     <xsd:maxExclusive value="5400000"/>
226   </xsd:restriction>
227 </xsd:simpleType>
228 <xsd:simpleType name="ST_PositiveFixedAngle">
229   <xsd:restriction base="ST_Angle">
230     <xsd:minInclusive value="0"/>

```

```

231     <xsd:maxExclusive value="21600000"/>
232   </xsd:restriction>
233 </xsd:simpleType>
234 <xsd:complexType name="CT_PositiveFixedAngle">
235   <xsd:attribute name="val" type="ST_PositiveFixedAngle" use="required"/>
236 </xsd:complexType>
237 <xsd:simpleType name="ST_Percentage">
238   <xsd:union memberTypes="ST_PercentageDecimal s:ST_Percentage"/>
239 </xsd:simpleType>
240 <xsd:simpleType name="ST_PercentageDecimal">
241   <xsd:restriction base="xsd:int"/>
242 </xsd:simpleType>
243 <xsd:complexType name="CT_Percentage">
244   <xsd:attribute name="val" type="ST_Percentage" use="required"/>
245 </xsd:complexType>
246 <xsd:simpleType name="ST_PositivePercentage">
247   <xsd:union memberTypes="ST_PositivePercentageDecimal s:ST_PositivePercentage"/>
248 </xsd:simpleType>
249 <xsd:simpleType name="ST_PositivePercentageDecimal">
250   <xsd:restriction base="ST_PercentageDecimal">
251     <xsd:minInclusive value="0"/>
252   </xsd:restriction>
253 </xsd:simpleType>
254 <xsd:complexType name="CT_PositivePercentage">
255   <xsd:attribute name="val" type="ST_PositivePercentage" use="required"/>
256 </xsd:complexType>
257 <xsd:simpleType name="ST_FixedPercentage">
258   <xsd:union memberTypes="ST_FixedPercentageDecimal s:ST_FixedPercentage"/>
259 </xsd:simpleType>
260 <xsd:simpleType name="ST_FixedPercentageDecimal">
261   <xsd:restriction base="ST_PercentageDecimal">
262     <xsd:minInclusive value="-100000"/>
263     <xsd:maxInclusive value="100000"/>
264   </xsd:restriction>
265 </xsd:simpleType>
266 <xsd:complexType name="CT_FixedPercentage">
267   <xsd:attribute name="val" type="ST_FixedPercentage" use="required"/>
268 </xsd:complexType>
269 <xsd:simpleType name="ST_PositiveFixedPercentage">
270   <xsd:union memberTypes="ST_PositiveFixedPercentageDecimal s:ST_PositiveFixedPercentage"/>
271 </xsd:simpleType>
272 <xsd:simpleType name="ST_PositiveFixedPercentageDecimal">
273   <xsd:restriction base="ST_PercentageDecimal">
274     <xsd:minInclusive value="0"/>
275     <xsd:maxInclusive value="100000"/>
276   </xsd:restriction>
277 </xsd:simpleType>
278 <xsd:complexType name="CT_PositiveFixedPercentage">
279   <xsd:attribute name="val" type="ST_PositiveFixedPercentage" use="required"/>
280 </xsd:complexType>
281 <xsd:complexType name="CT_Ratio">
282   <xsd:attribute name="n" type="xsd:long" use="required"/>
283   <xsd:attribute name="d" type="xsd:long" use="required"/>

```

```

284 </xsd:complexType>
285 <xsd:complexType name="CT_Point2D">
286   <xsd:attribute name="x" type="ST_Coordinate" use="required"/>
287   <xsd:attribute name="y" type="ST_Coordinate" use="required"/>
288 </xsd:complexType>
289 <xsd:complexType name="CT_PositiveSize2D">
290   <xsd:attribute name="cx" type="ST_PositiveCoordinate" use="required"/>
291   <xsd:attribute name="cy" type="ST_PositiveCoordinate" use="required"/>
292 </xsd:complexType>
293 <xsd:complexType name="CT_ComplementTransform"/>
294 <xsd:complexType name="CT_InverseTransform"/>
295 <xsd:complexType name="CT_GrayscaleTransform"/>
296 <xsd:complexType name="CT_GammaTransform"/>
297 <xsd:complexType name="CT_InverseGammaTransform"/>
298 <xsd:group name="EG_ColorTransform">
299   <xsd:choice>
300     <xsd:element name="tint" type="CT_PositiveFixedPercentage" minOccurs="1" maxOccurs="1"/>
301     <xsd:element name="shade" type="CT_PositiveFixedPercentage" minOccurs="1" maxOccurs="1"/>
302     <xsd:element name="comp" type="CT_ComplementTransform" minOccurs="1" maxOccurs="1"/>
303     <xsd:element name="inv" type="CT_InverseTransform" minOccurs="1" maxOccurs="1"/>
304     <xsd:element name="gray" type="CT_GrayscaleTransform" minOccurs="1" maxOccurs="1"/>
305     <xsd:element name="alpha" type="CT_PositiveFixedPercentage" minOccurs="1" maxOccurs="1"/>
306     <xsd:element name="alphaOff" type="CT_FixedPercentage" minOccurs="1" maxOccurs="1"/>
307     <xsd:element name="alphaMod" type="CT_PositivePercentage" minOccurs="1" maxOccurs="1"/>
308     <xsd:element name="hue" type="CT_PositiveFixedAngle" minOccurs="1" maxOccurs="1"/>
309     <xsd:element name="hueOff" type="CT_Angle" minOccurs="1" maxOccurs="1"/>
310     <xsd:element name="hueMod" type="CT_PositivePercentage" minOccurs="1" maxOccurs="1"/>
311     <xsd:element name="sat" type="CT_Percentage" minOccurs="1" maxOccurs="1"/>
312     <xsd:element name="satOff" type="CT_Percentage" minOccurs="1" maxOccurs="1"/>
313     <xsd:element name="satMod" type="CT_Percentage" minOccurs="1" maxOccurs="1"/>
314     <xsd:element name="lum" type="CT_Percentage" minOccurs="1" maxOccurs="1"/>
315     <xsd:element name="lumOff" type="CT_Percentage" minOccurs="1" maxOccurs="1"/>
316     <xsd:element name="lumMod" type="CT_Percentage" minOccurs="1" maxOccurs="1"/>
317     <xsd:element name="red" type="CT_Percentage" minOccurs="1" maxOccurs="1"/>
318     <xsd:element name="redOff" type="CT_Percentage" minOccurs="1" maxOccurs="1"/>
319     <xsd:element name="redMod" type="CT_Percentage" minOccurs="1" maxOccurs="1"/>
320     <xsd:element name="green" type="CT_Percentage" minOccurs="1" maxOccurs="1"/>
321     <xsd:element name="greenOff" type="CT_Percentage" minOccurs="1" maxOccurs="1"/>
322     <xsd:element name="greenMod" type="CT_Percentage" minOccurs="1" maxOccurs="1"/>
323     <xsd:element name="blue" type="CT_Percentage" minOccurs="1" maxOccurs="1"/>
324     <xsd:element name="blueOff" type="CT_Percentage" minOccurs="1" maxOccurs="1"/>
325     <xsd:element name="blueMod" type="CT_Percentage" minOccurs="1" maxOccurs="1"/>
326     <xsd:element name="gamma" type="CT_GammaTransform" minOccurs="1" maxOccurs="1"/>
327     <xsd:element name="invGamma" type="CT_InverseGammaTransform" minOccurs="1" maxOccurs="1"/>
328   </xsd:choice>
329 </xsd:group>
330 <xsd:complexType name="CT_ScRgbColor">
331   <xsd:sequence>
332     <xsd:group ref="EG_ColorTransform" minOccurs="0" maxOccurs="unbounded"/>
333   </xsd:sequence>
334   <xsd:attribute name="r" type="ST_Percentage" use="required"/>
335   <xsd:attribute name="g" type="ST_Percentage" use="required"/>
336   <xsd:attribute name="b" type="ST_Percentage" use="required"/>

```

```

337 </xsd:complexType>
338 <xsd:complexType name="CT_SRgbColor">
339   <xsd:sequence>
340     <xsd:group ref="EG_ColorTransform" minOccurs="0" maxOccurs="unbounded"/>
341   </xsd:sequence>
342   <xsd:attribute name="val" type="s:ST_HexColorRGB" use="required"/>
343 </xsd:complexType>
344 <xsd:complexType name="CT_HslColor">
345   <xsd:sequence>
346     <xsd:group ref="EG_ColorTransform" minOccurs="0" maxOccurs="unbounded"/>
347   </xsd:sequence>
348   <xsd:attribute name="hue" type="ST_PositiveFixedAngle" use="required"/>
349   <xsd:attribute name="sat" type="ST_Percentage" use="required"/>
350   <xsd:attribute name="lum" type="ST_Percentage" use="required"/>
351 </xsd:complexType>
352 <xsd:simpleType name="ST_SystemColorVal">
353   <xsd:restriction base="xsd:token">
354     <xsd:enumeration value="scrollBar"/>
355     <xsd:enumeration value="background"/>
356     <xsd:enumeration value="activeCaption"/>
357     <xsd:enumeration value="inactiveCaption"/>
358     <xsd:enumeration value="menu"/>
359     <xsd:enumeration value="window"/>
360     <xsd:enumeration value="windowFrame"/>
361     <xsd:enumeration value="menuText"/>
362     <xsd:enumeration value="windowText"/>
363     <xsd:enumeration value="captionText"/>
364     <xsd:enumeration value="activeBorder"/>
365     <xsd:enumeration value="inactiveBorder"/>
366     <xsd:enumeration value="appWorkspace"/>
367     <xsd:enumeration value="highlight"/>
368     <xsd:enumeration value="highlightText"/>
369     <xsd:enumeration value="btnFace"/>
370     <xsd:enumeration value="btnShadow"/>
371     <xsd:enumeration value="grayText"/>
372     <xsd:enumeration value="btnText"/>
373     <xsd:enumeration value="inactiveCaptionText"/>
374     <xsd:enumeration value="btnHighlight"/>
375     <xsd:enumeration value="3dDkShadow"/>
376     <xsd:enumeration value="3dLight"/>
377     <xsd:enumeration value="infoText"/>
378     <xsd:enumeration value="infoBk"/>
379     <xsd:enumeration value="hotLight"/>
380     <xsd:enumeration value="gradientActiveCaption"/>
381     <xsd:enumeration value="gradientInactiveCaption"/>
382     <xsd:enumeration value="menuHighlight"/>
383     <xsd:enumeration value="menuBar"/>
384   </xsd:restriction>
385 </xsd:simpleType>
386 <xsd:complexType name="CT_SystemColor">
387   <xsd:sequence>
388     <xsd:group ref="EG_ColorTransform" minOccurs="0" maxOccurs="unbounded"/>
389   </xsd:sequence>

```

```

390     <xsd:attribute name="val" type="ST_SystemColorVal" use="required"/>
391     <xsd:attribute name="lastClr" type="s:ST_HexColorRGB" use="optional"/>
392 </xsd:complexType>
393 <xsd:simpleType name="ST_SchemeColorVal">
394     <xsd:restriction base="xsd:token">
395         <xsd:enumeration value="bg1"/>
396         <xsd:enumeration value="tx1"/>
397         <xsd:enumeration value="bg2"/>
398         <xsd:enumeration value="tx2"/>
399         <xsd:enumeration value="accent1"/>
400         <xsd:enumeration value="accent2"/>
401         <xsd:enumeration value="accent3"/>
402         <xsd:enumeration value="accent4"/>
403         <xsd:enumeration value="accent5"/>
404         <xsd:enumeration value="accent6"/>
405         <xsd:enumeration value="hlink"/>
406         <xsd:enumeration value="folHlink"/>
407         <xsd:enumeration value="phClr"/>
408         <xsd:enumeration value="dk1"/>
409         <xsd:enumeration value="lt1"/>
410         <xsd:enumeration value="dk2"/>
411         <xsd:enumeration value="lt2"/>
412     </xsd:restriction>
413 </xsd:simpleType>
414 <xsd:complexType name="CT_SchemeColor">
415     <xsd:sequence>
416         <xsd:group ref="EG_ColorTransform" minOccurs="0" maxOccurs="unbounded"/>
417     </xsd:sequence>
418     <xsd:attribute name="val" type="ST_SchemeColorVal" use="required"/>
419 </xsd:complexType>
420 <xsd:simpleType name="ST_PresetColorVal">
421     <xsd:restriction base="xsd:token">
422         <xsd:enumeration value="aliceBlue"/>
423         <xsd:enumeration value="antiqueWhite"/>
424         <xsd:enumeration value="aqua"/>
425         <xsd:enumeration value="aquamarine"/>
426         <xsd:enumeration value="azure"/>
427         <xsd:enumeration value="beige"/>
428         <xsd:enumeration value="bisque"/>
429         <xsd:enumeration value="black"/>
430         <xsd:enumeration value="blanchedAlmond"/>
431         <xsd:enumeration value="blue"/>
432         <xsd:enumeration value="blueViolet"/>
433         <xsd:enumeration value="brown"/>
434         <xsd:enumeration value="burlyWood"/>
435         <xsd:enumeration value="cadetBlue"/>
436         <xsd:enumeration value="chartreuse"/>
437         <xsd:enumeration value="chocolate"/>
438         <xsd:enumeration value="coral"/>
439         <xsd:enumeration value="cornflowerBlue"/>
440         <xsd:enumeration value="cornsilk"/>
441         <xsd:enumeration value="crimson"/>
442         <xsd:enumeration value="cyan"/>

```

```

443      <xsd:enumeration value="darkBlue"/>
444      <xsd:enumeration value="darkCyan"/>
445      <xsd:enumeration value="darkGoldenrod"/>
446      <xsd:enumeration value="darkGray"/>
447      <xsd:enumeration value="darkGrey"/>
448      <xsd:enumeration value="darkGreen"/>
449      <xsd:enumeration value="darkKhaki"/>
450      <xsd:enumeration value="darkMagenta"/>
451      <xsd:enumeration value="darkOliveGreen"/>
452      <xsd:enumeration value="darkOrange"/>
453      <xsd:enumeration value="darkOrchid"/>
454      <xsd:enumeration value="darkRed"/>
455      <xsd:enumeration value="darkSalmon"/>
456      <xsd:enumeration value="darkSeaGreen"/>
457      <xsd:enumeration value="darkSlateBlue"/>
458      <xsd:enumeration value="darkSlateGray"/>
459      <xsd:enumeration value="darkSlateGrey"/>
460      <xsd:enumeration value="darkTurquoise"/>
461      <xsd:enumeration value="darkViolet"/>
462      <xsd:enumeration value="dkBlue"/>
463      <xsd:enumeration value="dkCyan"/>
464      <xsd:enumeration value="dkGoldenrod"/>
465      <xsd:enumeration value="dkGray"/>
466      <xsd:enumeration value="dkGrey"/>
467      <xsd:enumeration value="dkGreen"/>
468      <xsd:enumeration value="dkKhaki"/>
469      <xsd:enumeration value="dkMagenta"/>
470      <xsd:enumeration value="dkOliveGreen"/>
471      <xsd:enumeration value="dkOrange"/>
472      <xsd:enumeration value="dkOrchid"/>
473      <xsd:enumeration value="dkRed"/>
474      <xsd:enumeration value="dkSalmon"/>
475      <xsd:enumeration value="dkSeaGreen"/>
476      <xsd:enumeration value="dkSlateBlue"/>
477      <xsd:enumeration value="dkSlateGray"/>
478      <xsd:enumeration value="dkSlateGrey"/>
479      <xsd:enumeration value="dkTurquoise"/>
480      <xsd:enumeration value="dkViolet"/>
481      <xsd:enumeration value="deepPink"/>
482      <xsd:enumeration value="deepSkyBlue"/>
483      <xsd:enumeration value="dimGray"/>
484      <xsd:enumeration value="dimGrey"/>
485      <xsd:enumeration value="dodgerBlue"/>
486      <xsd:enumeration value="firebrick"/>
487      <xsd:enumeration value="floralWhite"/>
488      <xsd:enumeration value="forestGreen"/>
489      <xsd:enumeration value="fuchsia"/>
490      <xsd:enumeration value="gainsboro"/>
491      <xsd:enumeration value="ghostWhite"/>
492      <xsd:enumeration value="gold"/>
493      <xsd:enumeration value="goldenrod"/>
494      <xsd:enumeration value="gray"/>
495      <xsd:enumeration value="grey"/>

```



```

496      <xsd:enumeration value="green"/>
497      <xsd:enumeration value="greenYellow"/>
498      <xsd:enumeration value="honeydew"/>
499      <xsd:enumeration value="hotPink"/>
500      <xsd:enumeration value="indianRed"/>
501      <xsd:enumeration value="indigo"/>
502      <xsd:enumeration value="ivory"/>
503      <xsd:enumeration value="khaki"/>
504      <xsd:enumeration value="lavender"/>
505      <xsd:enumeration value="lavenderBlush"/>
506      <xsd:enumeration value="lawnGreen"/>
507      <xsd:enumeration value="lemonChiffon"/>
508      <xsd:enumeration value="lightBlue"/>
509      <xsd:enumeration value="lightCoral"/>
510      <xsd:enumeration value="lightCyan"/>
511      <xsd:enumeration value="lightGoldenrodYellow"/>
512      <xsd:enumeration value="lightGray"/>
513      <xsd:enumeration value="lightGrey"/>
514      <xsd:enumeration value="lightGreen"/>
515      <xsd:enumeration value="lightPink"/>
516      <xsd:enumeration value="lightSalmon"/>
517      <xsd:enumeration value="lightSeaGreen"/>
518      <xsd:enumeration value="lightSkyBlue"/>
519      <xsd:enumeration value="lightSlateGray"/>
520      <xsd:enumeration value="lightSlateGrey"/>
521      <xsd:enumeration value="lightSteelBlue"/>
522      <xsd:enumeration value="lightYellow"/>
523      <xsd:enumeration value="ltBlue"/>
524      <xsd:enumeration value="ltCoral"/>
525      <xsd:enumeration value="ltCyan"/>
526      <xsd:enumeration value="ltGoldenrodYellow"/>
527      <xsd:enumeration value="ltGray"/>
528      <xsd:enumeration value="ltGrey"/>
529      <xsd:enumeration value="ltGreen"/>
530      <xsd:enumeration value="ltPink"/>
531      <xsd:enumeration value="ltSalmon"/>
532      <xsd:enumeration value="ltSeaGreen"/>
533      <xsd:enumeration value="ltSkyBlue"/>
534      <xsd:enumeration value="ltSlateGray"/>
535      <xsd:enumeration value="ltSlateGrey"/>
536      <xsd:enumeration value="ltSteelBlue"/>
537      <xsd:enumeration value="ltYellow"/>
538      <xsd:enumeration value="lime"/>
539      <xsd:enumeration value="limeGreen"/>
540      <xsd:enumeration value="linen"/>
541      <xsd:enumeration value="magenta"/>
542      <xsd:enumeration value="maroon"/>
543      <xsd:enumeration value="medAquamarine"/>
544      <xsd:enumeration value="medBlue"/>
545      <xsd:enumeration value="medOrchid"/>
546      <xsd:enumeration value="medPurple"/>
547      <xsd:enumeration value="medSeaGreen"/>
548      <xsd:enumeration value="medSlateBlue"/>

```

```

549     <xsd:enumeration value="medSpringGreen"/>
550     <xsd:enumeration value="medTurquoise"/>
551     <xsd:enumeration value="medVioletRed"/>
552     <xsd:enumeration value="mediumAquamarine"/>
553     <xsd:enumeration value="mediumBlue"/>
554     <xsd:enumeration value="mediumOrchid"/>
555     <xsd:enumeration value="mediumPurple"/>
556     <xsd:enumeration value="mediumSeaGreen"/>
557     <xsd:enumeration value="mediumSlateBlue"/>
558     <xsd:enumeration value="mediumSpringGreen"/>
559     <xsd:enumeration value="mediumTurquoise"/>
560     <xsd:enumeration value="mediumVioletRed"/>
561     <xsd:enumeration value="midnightBlue"/>
562     <xsd:enumeration value="mintCream"/>
563     <xsd:enumeration value="mistyRose"/>
564     <xsd:enumeration value="moccasin"/>
565     <xsd:enumeration value="navajoWhite"/>
566     <xsd:enumeration value="navy"/>
567     <xsd:enumeration value="oldLace"/>
568     <xsd:enumeration value="olive"/>
569     <xsd:enumeration value="oliveDrab"/>
570     <xsd:enumeration value="orange"/>
571     <xsd:enumeration value="orangeRed"/>
572     <xsd:enumeration value="orchid"/>
573     <xsd:enumeration value="paleGoldenrod"/>
574     <xsd:enumeration value="paleGreen"/>
575     <xsd:enumeration value="paleTurquoise"/>
576     <xsd:enumeration value="paleVioletRed"/>
577     <xsd:enumeration value="papayaWhip"/>
578     <xsd:enumeration value="peachPuff"/>
579     <xsd:enumeration value="peru"/>
580     <xsd:enumeration value="pink"/>
581     <xsd:enumeration value="plum"/>
582     <xsd:enumeration value="powderBlue"/>
583     <xsd:enumeration value="purple"/>
584     <xsd:enumeration value="red"/>
585     <xsd:enumeration value="rosyBrown"/>
586     <xsd:enumeration value="royalBlue"/>
587     <xsd:enumeration value="saddleBrown"/>
588     <xsd:enumeration value="salmon"/>
589     <xsd:enumeration value="sandyBrown"/>
590     <xsd:enumeration value="seaGreen"/>
591     <xsd:enumeration value="seaShell"/>
592     <xsd:enumeration value="sienna"/>
593     <xsd:enumeration value="silver"/>
594     <xsd:enumeration value="skyBlue"/>
595     <xsd:enumeration value="slateBlue"/>
596     <xsd:enumeration value="slateGray"/>
597     <xsd:enumeration value="slateGrey"/>
598     <xsd:enumeration value="snow"/>
599     <xsd:enumeration value="springGreen"/>
600     <xsd:enumeration value="steelBlue"/>
601     <xsd:enumeration value="tan"/>

```



```

602     <xsd:enumeration value="teal"/>
603     <xsd:enumeration value="thistle"/>
604     <xsd:enumeration value="tomato"/>
605     <xsd:enumeration value="turquoise"/>
606     <xsd:enumeration value="violet"/>
607     <xsd:enumeration value="wheat"/>
608     <xsd:enumeration value="white"/>
609     <xsd:enumeration value="whiteSmoke"/>
610     <xsd:enumeration value="yellow"/>
611     <xsd:enumeration value="yellowGreen"/>
612 </xsd:restriction>
613 </xsd:simpleType>
614 <xsd:complexType name="CT_PresetColor">
615     <xsd:sequence>
616         <xsd:group ref="EG_ColorTransform" minOccurs="0" maxOccurs="unbounded"/>
617     </xsd:sequence>
618     <xsd:attribute name="val" type="ST_PresetColorVal" use="required"/>
619 </xsd:complexType>
620 <xsd:group name="EG_OfficeArtExtensionList">
621     <xsd:sequence>
622         <xsd:element name="ext" type="CT_OfficeArtExtension" minOccurs="0" maxOccurs="unbounded"/>
623     </xsd:sequence>
624 </xsd:group>
625 <xsd:complexType name="CT_OfficeArtExtensionList">
626     <xsd:sequence>
627         <xsd:group ref="EG_OfficeArtExtensionList" minOccurs="1" maxOccurs="1"/>
628     </xsd:sequence>
629 </xsd:complexType>
630 <xsd:complexType name="CT_Scale2D">
631     <xsd:sequence>
632         <xsd:element name="sx" type="CT_Ratio" minOccurs="1" maxOccurs="1"/>
633         <xsd:element name="sy" type="CT_Ratio" minOccurs="1" maxOccurs="1"/>
634     </xsd:sequence>
635 </xsd:complexType>
636 <xsd:complexType name="CT_Transform2D">
637     <xsd:sequence>
638         <xsd:element name="off" type="CT_Point2D" minOccurs="0" maxOccurs="1"/>
639         <xsd:element name="ext" type="CT_PositiveSize2D" minOccurs="0" maxOccurs="1"/>
640     </xsd:sequence>
641     <xsd:attribute name="rot" type="ST_Angle" use="optional" default="0"/>
642     <xsd:attribute name="flipH" type="xsd:boolean" use="optional" default="false"/>
643     <xsd:attribute name="flipV" type="xsd:boolean" use="optional" default="false"/>
644 </xsd:complexType>
645 <xsd:complexType name="CT_GroupTransform2D">
646     <xsd:sequence>
647         <xsd:element name="off" type="CT_Point2D" minOccurs="0" maxOccurs="1"/>
648         <xsd:element name="ext" type="CT_PositiveSize2D" minOccurs="0" maxOccurs="1"/>
649         <xsd:element name="chOff" type="CT_Point2D" minOccurs="0" maxOccurs="1"/>
650         <xsd:element name="chExt" type="CT_PositiveSize2D" minOccurs="0" maxOccurs="1"/>
651     </xsd:sequence>
652     <xsd:attribute name="rot" type="ST_Angle" use="optional" default="0"/>
653     <xsd:attribute name="flipH" type="xsd:boolean" use="optional" default="false"/>
654     <xsd:attribute name="flipV" type="xsd:boolean" use="optional" default="false"/>

```

```

655 </xsd:complexType>
656 <xsd:complexType name="CT_Point3D">
657   <xsd:attribute name="x" type="ST_Coordinate" use="required"/>
658   <xsd:attribute name="y" type="ST_Coordinate" use="required"/>
659   <xsd:attribute name="z" type="ST_Coordinate" use="required"/>
660 </xsd:complexType>
661 <xsd:complexType name="CT_Vector3D">
662   <xsd:attribute name="dx" type="ST_Coordinate" use="required"/>
663   <xsd:attribute name="dy" type="ST_Coordinate" use="required"/>
664   <xsd:attribute name="dz" type="ST_Coordinate" use="required"/>
665 </xsd:complexType>
666 <xsd:complexType name="CT_SphereCoords">
667   <xsd:attribute name="lat" type="ST_PositiveFixedAngle" use="required"/>
668   <xsd:attribute name="lon" type="ST_PositiveFixedAngle" use="required"/>
669   <xsd:attribute name="rev" type="ST_PositiveFixedAngle" use="required"/>
670 </xsd:complexType>
671 <xsd:complexType name="CT_RelativeRect">
672   <xsd:attribute name="l" type="ST_Percentage" use="optional" default="0%"/>
673   <xsd:attribute name="t" type="ST_Percentage" use="optional" default="0%"/>
674   <xsd:attribute name="r" type="ST_Percentage" use="optional" default="0%"/>
675   <xsd:attribute name="b" type="ST_Percentage" use="optional" default="0%"/>
676 </xsd:complexType>
677 <xsd:simpleType name="ST_RectAlignment">
678   <xsd:restriction base="xsd:token">
679     <xsd:enumeration value="tl"/>
680     <xsd:enumeration value="t"/>
681     <xsd:enumeration value="tr"/>
682     <xsd:enumeration value="l"/>
683     <xsd:enumeration value="ctr"/>
684     <xsd:enumeration value="r"/>
685     <xsd:enumeration value="bl"/>
686     <xsd:enumeration value="b"/>
687     <xsd:enumeration value="br"/>
688   </xsd:restriction>
689 </xsd:simpleType>
690 <xsd:group name="EG_ColorChoice">
691   <xsd:choice>
692     <xsd:element name="scrgbClr" type="CT_ScRgbColor" minOccurs="1" maxOccurs="1"/>
693     <xsd:element name="srgbClr" type="CT_SRgbColor" minOccurs="1" maxOccurs="1"/>
694     <xsd:element name="hslClr" type="CT_HslColor" minOccurs="1" maxOccurs="1"/>
695     <xsd:element name="sysClr" type="CT_SystemColor" minOccurs="1" maxOccurs="1"/>
696     <xsd:element name="schemeClr" type="CT_SchemeColor" minOccurs="1" maxOccurs="1"/>
697     <xsd:element name="prstClr" type="CT_PresetColor" minOccurs="1" maxOccurs="1"/>
698   </xsd:choice>
699 </xsd:group>
700 <xsd:complexType name="CT_Color">
701   <xsd:sequence>
702     <xsd:group ref="EG_ColorChoice"/>
703   </xsd:sequence>
704 </xsd:complexType>
705 <xsd:complexType name="CT_ColorMRU">
706   <xsd:sequence>
707     <xsd:group ref="EG_ColorChoice" minOccurs="0" maxOccurs="unbounded"/>

```

```

708     </xsd:sequence>
709 </xsd:complexType>
710 <xsd:simpleType name="ST_BlackWhiteMode">
711     <xsd:restriction base="xsd:token">
712         <xsd:enumeration value="clr"/>
713         <xsd:enumeration value="auto"/>
714         <xsd:enumeration value="gray"/>
715         <xsd:enumeration value="ltGray"/>
716         <xsd:enumeration value="invGray"/>
717         <xsd:enumeration value="grayWhite"/>
718         <xsd:enumeration value="blackGray"/>
719         <xsd:enumeration value="blackWhite"/>
720         <xsd:enumeration value="black"/>
721         <xsd:enumeration value="white"/>
722         <xsd:enumeration value="hidden"/>
723     </xsd:restriction>
724 </xsd:simpleType>
725 <xsd:attributeGroup name="AG_Blob">
726     <xsd:attribute ref="r:embed" use="optional" default=""/>
727     <xsd:attribute ref="r:link" use="optional" default=""/>
728 </xsd:attributeGroup>
729 <xsd:complexType name="CT_EmbeddedWAVAudioFile">
730     <xsd:attribute ref="r:embed" use="required"/>
731     <xsd:attribute name="name" type="xsd:string" use="optional" default=""/>
732 </xsd:complexType>
733 <xsd:complexType name="CT_Hyperlink">
734     <xsd:sequence>
735         <xsd:element name="snd" type="CT_EmbeddedWAVAudioFile" minOccurs="0" maxOccurs="1"/>
736         <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
737     </xsd:sequence>
738     <xsd:attribute ref="r:id" use="optional"/>
739     <xsd:attribute name="invalidUrl" type="xsd:string" use="optional" default=""/>
740     <xsd:attribute name="action" type="xsd:string" use="optional" default=""/>
741     <xsd:attribute name="tgtFrame" type="xsd:string" use="optional" default=""/>
742     <xsd:attribute name="tooltip" type="xsd:string" use="optional" default=""/>
743     <xsd:attribute name="history" type="xsd:boolean" use="optional" default="true"/>
744     <xsd:attribute name="highlightClick" type="xsd:boolean" use="optional" default="false"/>
745     <xsd:attribute name="endSnd" type="xsd:boolean" use="optional" default="false"/>
746 </xsd:complexType>
747 <xsd:simpleType name="ST_DrawingElementId">
748     <xsd:restriction base="xsd:unsignedInt"/>
749 </xsd:simpleType>
750 <xsd:attributeGroup name="AG_Locking">
751     <xsd:attribute name="noGrp" type="xsd:boolean" use="optional" default="false"/>
752     <xsd:attribute name="noSelect" type="xsd:boolean" use="optional" default="false"/>
753     <xsd:attribute name="noRot" type="xsd:boolean" use="optional" default="false"/>
754     <xsd:attribute name="noChangeAspect" type="xsd:boolean" use="optional" default="false"/>
755     <xsd:attribute name="noMove" type="xsd:boolean" use="optional" default="false"/>
756     <xsd:attribute name="noResize" type="xsd:boolean" use="optional" default="false"/>
757     <xsd:attribute name="noEditPoints" type="xsd:boolean" use="optional" default="false"/>
758     <xsd:attribute name="noAdjustHandles" type="xsd:boolean" use="optional" default="false"/>
759     <xsd:attribute name="noChangeArrowheads" type="xsd:boolean" use="optional" default="false"/>
760     <xsd:attribute name="noChangeShapeType" type="xsd:boolean" use="optional" default="false"/>

```

```

761 </xsd:attributeGroup>
762 <xsd:complexType name="CT_ConnectorLocking">
763   <xsd:sequence>
764     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
765   </xsd:sequence>
766   <xsd:attributeGroup ref="AG_Locking"/>
767 </xsd:complexType>
768 <xsd:complexType name="CT_ShapeLocking">
769   <xsd:sequence>
770     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
771   </xsd:sequence>
772   <xsd:attributeGroup ref="AG_Locking"/>
773   <xsd:attribute name="noTextEdit" type="xsd:boolean" use="optional" default="false"/>
774 </xsd:complexType>
775 <xsd:complexType name="CT_PictureLocking">
776   <xsd:sequence>
777     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
778   </xsd:sequence>
779   <xsd:attributeGroup ref="AG_Locking"/>
780   <xsd:attribute name="noCrop" type="xsd:boolean" use="optional" default="false"/>
781 </xsd:complexType>
782 <xsd:complexType name="CT_GroupLocking">
783   <xsd:sequence>
784     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
785   </xsd:sequence>
786   <xsd:attribute name="noGrp" type="xsd:boolean" use="optional" default="false"/>
787   <xsd:attribute name="noUngrp" type="xsd:boolean" use="optional" default="false"/>
788   <xsd:attribute name="noSelect" type="xsd:boolean" use="optional" default="false"/>
789   <xsd:attribute name="noRot" type="xsd:boolean" use="optional" default="false"/>
790   <xsd:attribute name="noChangeAspect" type="xsd:boolean" use="optional" default="false"/>
791   <xsd:attribute name="noMove" type="xsd:boolean" use="optional" default="false"/>
792   <xsd:attribute name="noResize" type="xsd:boolean" use="optional" default="false"/>
793 </xsd:complexType>
794 <xsd:complexType name="CT_GraphicalObjectFrameLocking">
795   <xsd:sequence>
796     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
797   </xsd:sequence>
798   <xsd:attribute name="noGrp" type="xsd:boolean" use="optional" default="false"/>
799   <xsd:attribute name="noDrilldown" type="xsd:boolean" use="optional" default="false"/>
800   <xsd:attribute name="noSelect" type="xsd:boolean" use="optional" default="false"/>
801   <xsd:attribute name="noChangeAspect" type="xsd:boolean" use="optional" default="false"/>
802   <xsd:attribute name="noMove" type="xsd:boolean" use="optional" default="false"/>
803   <xsd:attribute name="noResize" type="xsd:boolean" use="optional" default="false"/>
804 </xsd:complexType>
805 <xsd:complexType name="CT_NonVisualDrawingProps">
806   <xsd:sequence>
807     <xsd:element name="hlinkClick" type="CT_Hyperlink" minOccurs="0" maxOccurs="1"/>
808     <xsd:element name="hlinkHover" type="CT_Hyperlink" minOccurs="0" maxOccurs="1"/>
809     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
810   </xsd:sequence>
811   <xsd:attribute name="id" type="ST_DrawingElementId" use="required"/>
812   <xsd:attribute name="name" type="xsd:string" use="required"/>
813   <xsd:attribute name="descr" type="xsd:string" use="optional" default=""/>

```

```

814     <xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/>
815     <xsd:attribute name="title" type="xsd:string" use="optional" default=""/>
816 </xsd:complexType>
817 <xsd:complexType name="CT_NonVisualDrawingShapeProps">
818     <xsd:sequence>
819         <xsd:element name="spLocks" type="CT_ShapeLocking" minOccurs="0" maxOccurs="1"/>
820         <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
821     </xsd:sequence>
822     <xsd:attribute name="tXBox" type="xsd:boolean" use="optional" default="false"/>
823 </xsd:complexType>
824 <xsd:complexType name="CT_NonVisualConnectorProperties">
825     <xsd:sequence>
826         <xsd:element name="cxnSpLocks" type="CT_ConnectorLocking" minOccurs="0" maxOccurs="1"/>
827         <xsd:element name="stCxn" type="CT_Connection" minOccurs="0" maxOccurs="1"/>
828         <xsd:element name="endCxn" type="CT_Connection" minOccurs="0" maxOccurs="1"/>
829         <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
830     </xsd:sequence>
831 </xsd:complexType>
832 <xsd:complexType name="CT_NonVisualPictureProperties">
833     <xsd:sequence>
834         <xsd:element name="picLocks" type="CT_PictureLocking" minOccurs="0" maxOccurs="1"/>
835         <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
836     </xsd:sequence>
837     <xsd:attribute name="preferRelativeResize" type="xsd:boolean" use="optional" default="true"/>
838 </xsd:complexType>
839 <xsd:complexType name="CT_NonVisualGroupDrawingShapeProps">
840     <xsd:sequence>
841         <xsd:element name="grpSpLocks" type="CT_GroupLocking" minOccurs="0" maxOccurs="1"/>
842         <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
843     </xsd:sequence>
844 </xsd:complexType>
845 <xsd:complexType name="CT_NonVisualGraphicFrameProperties">
846     <xsd:sequence>
847         <xsd:element name="graphicFrameLocks" type="CT_GraphicalObjectFrameLocking" minOccurs="0"
848             maxOccurs="1"/>
849         <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
850     </xsd:sequence>
851 </xsd:complexType>
852 <xsd:complexType name="CT_GraphicalObjectData">
853     <xsd:sequence>
854         <xsd:any minOccurs="0" maxOccurs="unbounded" processContents="strict"/>
855     </xsd:sequence>
856     <xsd:attribute name="uri" type="xsd:token" use="required"/>
857 </xsd:complexType>
858 <xsd:complexType name="CT_GraphicalObject">
859     <xsd:sequence>
860         <xsd:element name="graphicData" type="CT_GraphicalObjectData"/>
861     </xsd:sequence>
862 </xsd:complexType>
863 <xsd:element name="graphic" type="CT_GraphicalObject"/>
864 <xsd:simpleType name="ST_ChartBuildStep">
865     <xsd:restriction base="xsd:token">
866         <xsd:enumeration value="category"/>

```

```

867     <xsd:enumeration value="ptInCategory"/>
868     <xsd:enumeration value="series"/>
869     <xsd:enumeration value="ptInSeries"/>
870     <xsd:enumeration value="allPts"/>
871     <xsd:enumeration value="gridLegend"/>
872   </xsd:restriction>
873 </xsd:simpleType>
874 <xsd:simpleType name="ST_DgmBuildStep">
875   <xsd:restriction base="xsd:token">
876     <xsd:enumeration value="sp"/>
877     <xsd:enumeration value="bg"/>
878   </xsd:restriction>
879 </xsd:simpleType>
880 <xsd:complexType name="CT_AnimationDgmElement">
881   <xsd:attribute name="id" type="s:ST_Guid" use="optional" default="{00000000-0000-0000-0000-
882     000000000000}"/>
883   <xsd:attribute name="bldStep" type="ST_DgmBuildStep" use="optional" default="sp"/>
884 </xsd:complexType>
885 <xsd:complexType name="CT_AnimationChartElement">
886   <xsd:attribute name="seriesIdx" type="xsd:int" use="optional" default="-1"/>
887   <xsd:attribute name="categoryIdx" type="xsd:int" use="optional" default="-1"/>
888   <xsd:attribute name="bldStep" type="ST_ChartBuildStep" use="required"/>
889 </xsd:complexType>
890 <xsd:complexType name="CT_AnimationElementChoice">
891   <xsd:choice minOccurs="1" maxOccurs="1">
892     <xsd:element name="dgm" type="CT_AnimationDgmElement"/>
893     <xsd:element name="chart" type="CT_AnimationChartElement"/>
894   </xsd:choice>
895 </xsd:complexType>
896 <xsd:simpleType name="ST_AnimationBuildType">
897   <xsd:restriction base="xsd:token">
898     <xsd:enumeration value="allAtOnce"/>
899   </xsd:restriction>
900 </xsd:simpleType>
901 <xsd:simpleType name="ST_AnimationDgmOnlyBuildType">
902   <xsd:restriction base="xsd:token">
903     <xsd:enumeration value="one"/>
904     <xsd:enumeration value="lvlOne"/>
905     <xsd:enumeration value="lvlAtOnce"/>
906   </xsd:restriction>
907 </xsd:simpleType>
908 <xsd:simpleType name="ST_AnimationDgmBuildType">
909   <xsd:union memberTypes="ST_AnimationBuildType ST_AnimationDgmOnlyBuildType"/>
910 </xsd:simpleType>
911 <xsd:complexType name="CT_AnimationDgmBuildProperties">
912   <xsd:attribute name="bld" type="ST_AnimationDgmBuildType" use="optional" default="allAtOnce"/>
913   <xsd:attribute name="rev" type="xsd:boolean" use="optional" default="false"/>
914 </xsd:complexType>
915 <xsd:simpleType name="ST_AnimationChartOnlyBuildType">
916   <xsd:restriction base="xsd:token">
917     <xsd:enumeration value="series"/>
918     <xsd:enumeration value="category"/>
919     <xsd:enumeration value="seriesEl"/>

```



```

920     <xsd:enumeration value="categoryEl"/>
921   </xsd:restriction>
922 </xsd:simpleType>
923 <xsd:simpleType name="ST_AnimationChartBuildType">
924   <xsd:union memberTypes="ST_AnimationBuildType ST_AnimationChartOnlyBuildType"/>
925 </xsd:simpleType>
926 <xsd:complexType name="CT_AnimationChartBuildProperties">
927   <xsd:attribute name="bld" type="ST_AnimationChartBuildType" use="optional"
928     default="allAtOnce"/>
929   <xsd:attribute name="animBg" type="xsd:boolean" use="optional" default="true"/>
930 </xsd:complexType>
931 <xsd:complexType name="CT_AnimationGraphicalObjectBuildProperties">
932   <xsd:choice>
933     <xsd:element name="bldDgm" type="CT_AnimationDgmBuildProperties"/>
934     <xsd:element name="bldChart" type="CT_AnimationChartBuildProperties"/>
935   </xsd:choice>
936 </xsd:complexType>
937 <xsd:complexType name="CT_BackgroundFormatting">
938   <xsd:sequence>
939     <xsd:group ref="EG_FillProperties" minOccurs="0" maxOccurs="1"/>
940     <xsd:group ref="EG_EffectProperties" minOccurs="0" maxOccurs="1"/>
941   </xsd:sequence>
942 </xsd:complexType>
943 <xsd:complexType name="CT_WholeE2oFormatting">
944   <xsd:sequence>
945     <xsd:element name="ln" type="CT_LineProperties" minOccurs="0" maxOccurs="1"/>
946     <xsd:group ref="EG_EffectProperties" minOccurs="0" maxOccurs="1"/>
947   </xsd:sequence>
948 </xsd:complexType>
949 <xsd:complexType name="CT_GvmlUseShapeRectangle"/>
950 <xsd:complexType name="CT_GvmlTextShape">
951   <xsd:sequence>
952     <xsd:element name="txBody" type="CT_TextBody" minOccurs="1" maxOccurs="1"/>
953     <xsd:choice>
954       <xsd:element name="useSpRect" type="CT_GvmlUseShapeRectangle" minOccurs="1"
955         maxOccurs="1"/>
956       <xsd:element name="xfrm" type="CT_Transform2D" minOccurs="1" maxOccurs="1"/>
957     </xsd:choice>
958     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
959   </xsd:sequence>
960 </xsd:complexType>
961 <xsd:complexType name="CT_GvmlShapeNonVisual">
962   <xsd:sequence>
963     <xsd:element name="cNvPr" type="CT_NonVisualDrawingProps" minOccurs="1" maxOccurs="1"/>
964     <xsd:element name="cNvSpPr" type="CT_NonVisualDrawingShapeProps" minOccurs="1"
965       maxOccurs="1"/>
966   </xsd:sequence>
967 </xsd:complexType>
968 <xsd:complexType name="CT_GvmlShape">
969   <xsd:sequence>
970     <xsd:element name="nvSpPr" type="CT_GvmlShapeNonVisual" minOccurs="1" maxOccurs="1"/>
971     <xsd:element name="spPr" type="CT_ShapeProperties" minOccurs="1" maxOccurs="1"/>
972     <xsd:element name="txSp" type="CT_GvmlTextShape" minOccurs="0" maxOccurs="1"/>

```

```

973     <xsd:element name="style" type="CT_ShapeStyle" minOccurs="0" maxOccurs="1"/>
974     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
975   </xsd:sequence>
976 </xsd:complexType>
977 <xsd:complexType name="CT_GvmlConnectorNonVisual">
978   <xsd:sequence>
979     <xsd:element name="cNvPr" type="CT_NonVisualDrawingProps" minOccurs="1" maxOccurs="1"/>
980     <xsd:element name="cNvCxnSpPr" type="CT_NonVisualConnectorProperties" minOccurs="1"
981       maxOccurs="1"/>
982   </xsd:sequence>
983 </xsd:complexType>
984 <xsd:complexType name="CT_GvmlConnector">
985   <xsd:sequence>
986     <xsd:element name="nvCxnSpPr" type="CT_GvmlConnectorNonVisual" minOccurs="1"
987       maxOccurs="1"/>
988     <xsd:element name="spPr" type="CT_ShapeProperties" minOccurs="1" maxOccurs="1"/>
989     <xsd:element name="style" type="CT_ShapeStyle" minOccurs="0" maxOccurs="1"/>
990     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
991   </xsd:sequence>
992 </xsd:complexType>
993 <xsd:complexType name="CT_GvmlPictureNonVisual">
994   <xsd:sequence>
995     <xsd:element name="cNvPr" type="CT_NonVisualDrawingProps" minOccurs="1" maxOccurs="1"/>
996     <xsd:element name="cNvPicPr" type="CT_NonVisualPictureProperties" minOccurs="1"
997       maxOccurs="1"/>
998   </xsd:sequence>
999 </xsd:complexType>
1000 <xsd:complexType name="CT_GvmlPicture">
1001   <xsd:sequence>
1002     <xsd:element name="nvPicPr" type="CT_GvmlPictureNonVisual" minOccurs="1" maxOccurs="1"/>
1003     <xsd:element name="blipFill" type="CT_BlipFillProperties" minOccurs="1" maxOccurs="1"/>
1004     <xsd:element name="spPr" type="CT_ShapeProperties" minOccurs="1" maxOccurs="1"/>
1005     <xsd:element name="style" type="CT_ShapeStyle" minOccurs="0" maxOccurs="1"/>
1006     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
1007   </xsd:sequence>
1008 </xsd:complexType>
1009 <xsd:complexType name="CT_GvmlGraphicFrameNonVisual">
1010   <xsd:sequence>
1011     <xsd:element name="cNvPr" type="CT_NonVisualDrawingProps" minOccurs="1" maxOccurs="1"/>
1012     <xsd:element name="cNvGraphicFramePr" type="CT_NonVisualGraphicFrameProperties"
1013       minOccurs="1" maxOccurs="1"/>
1014   </xsd:sequence>
1015 </xsd:complexType>
1016 <xsd:complexType name="CT_GvmlGraphicalObjectFrame">
1017   <xsd:sequence>
1018     <xsd:element name="nvGraphicFramePr" type="CT_GvmlGraphicFrameNonVisual" minOccurs="1"
1019       maxOccurs="1"/>
1020     <xsd:element ref="graphic" minOccurs="1" maxOccurs="1"/>
1021     <xsd:element name="xfrm" type="CT_Transform2D" minOccurs="1" maxOccurs="1"/>
1022     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
1023   </xsd:sequence>
1024 </xsd:complexType>
1025 <xsd:complexType name="CT_GvmlGroupShapeNonVisual">

```



```

1026     <xsd:sequence>
1027       <xsd:element name="cNvPr" type="CT_NonVisualDrawingProps" minOccurs="1" maxOccurs="1"/>
1028       <xsd:element name="cNvGrpSpPr" type="CT_NonVisualGroupDrawingShapeProps" minOccurs="1"
1029         maxOccurs="1"/>
1030     </xsd:sequence>
1031 </xsd:complexType>
1032 <xsd:complexType name="CT_GvmlGroupShape">
1033   <xsd:sequence>
1034     <xsd:element name="nvGrpSpPr" type="CT_GvmlGroupShapeNonVisual" minOccurs="1"
1035       maxOccurs="1"/>
1036     <xsd:element name="grpSpPr" type="CT_GroupShapeProperties" minOccurs="1" maxOccurs="1"/>
1037     <xsd:choice minOccurs="0" maxOccurs="unbounded">
1038       <xsd:element name="txSp" type="CT_GvmlTextShape"/>
1039       <xsd:element name="sp" type="CT_GvmlShape"/>
1040       <xsd:element name="cxnSp" type="CT_GvmlConnector"/>
1041       <xsd:element name="pic" type="CT_GvmlPicture"/>
1042       <xsd:element name="graphicFrame" type="CT_GvmlGraphicalObjectFrame"/>
1043       <xsd:element name="grpSp" type="CT_GvmlGroupShape"/>
1044     </xsd:choice>
1045     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
1046   </xsd:sequence>
1047 </xsd:complexType>
1048 <xsd:simpleType name="ST_PresetCameraType">
1049   <xsd:restriction base="xsd:token">
1050     <xsd:enumeration value="legacyObliqueTopLeft"/>
1051     <xsd:enumeration value="legacyObliqueTop"/>
1052     <xsd:enumeration value="legacyObliqueTopRight"/>
1053     <xsd:enumeration value="legacyObliqueLeft"/>
1054     <xsd:enumeration value="legacyObliqueFront"/>
1055     <xsd:enumeration value="legacyObliqueRight"/>
1056     <xsd:enumeration value="legacyObliqueBottomLeft"/>
1057     <xsd:enumeration value="legacyObliqueBottom"/>
1058     <xsd:enumeration value="legacyObliqueBottomRight"/>
1059     <xsd:enumeration value="legacyPerspectiveTopLeft"/>
1060     <xsd:enumeration value="legacyPerspectiveTop"/>
1061     <xsd:enumeration value="legacyPerspectiveTopRight"/>
1062     <xsd:enumeration value="legacyPerspectiveLeft"/>
1063     <xsd:enumeration value="legacyPerspectiveFront"/>
1064     <xsd:enumeration value="legacyPerspectiveRight"/>
1065     <xsd:enumeration value="legacyPerspectiveBottomLeft"/>
1066     <xsd:enumeration value="legacyPerspectiveBottom"/>
1067     <xsd:enumeration value="legacyPerspectiveBottomRight"/>
1068     <xsd:enumeration value="orthographicFront"/>
1069     <xsd:enumeration value="isometricTopUp"/>
1070     <xsd:enumeration value="isometricTopDown"/>
1071     <xsd:enumeration value="isometricBottomUp"/>
1072     <xsd:enumeration value="isometricBottomDown"/>
1073     <xsd:enumeration value="isometricLeftUp"/>
1074     <xsd:enumeration value="isometricLeftDown"/>
1075     <xsd:enumeration value="isometricRightUp"/>
1076     <xsd:enumeration value="isometricRightDown"/>
1077     <xsd:enumeration value="isometricOffAxis1Left"/>
1078     <xsd:enumeration value="isometricOffAxis1Right"/>

```

```

1079     <xsd:enumeration value="isometricOffAxis1Top"/>
1080     <xsd:enumeration value="isometricOffAxis2Left"/>
1081     <xsd:enumeration value="isometricOffAxis2Right"/>
1082     <xsd:enumeration value="isometricOffAxis2Top"/>
1083     <xsd:enumeration value="isometricOffAxis3Left"/>
1084     <xsd:enumeration value="isometricOffAxis3Right"/>
1085     <xsd:enumeration value="isometricOffAxis3Bottom"/>
1086     <xsd:enumeration value="isometricOffAxis4Left"/>
1087     <xsd:enumeration value="isometricOffAxis4Right"/>
1088     <xsd:enumeration value="isometricOffAxis4Bottom"/>
1089     <xsd:enumeration value="obliqueTopLeft"/>
1090     <xsd:enumeration value="obliqueTop"/>
1091     <xsd:enumeration value="obliqueTopRight"/>
1092     <xsd:enumeration value="obliqueLeft"/>
1093     <xsd:enumeration value="obliqueRight"/>
1094     <xsd:enumeration value="obliqueBottomLeft"/>
1095     <xsd:enumeration value="obliqueBottom"/>
1096     <xsd:enumeration value="obliqueBottomRight"/>
1097     <xsd:enumeration value="perspectiveFront"/>
1098     <xsd:enumeration value="perspectiveLeft"/>
1099     <xsd:enumeration value="perspectiveRight"/>
1100     <xsd:enumeration value="perspectiveAbove"/>
1101     <xsd:enumeration value="perspectiveBelow"/>
1102     <xsd:enumeration value="perspectiveAboveLeftFacing"/>
1103     <xsd:enumeration value="perspectiveAboveRightFacing"/>
1104     <xsd:enumeration value="perspectiveContrastingLeftFacing"/>
1105     <xsd:enumeration value="perspectiveContrastingRightFacing"/>
1106     <xsd:enumeration value="perspectiveHeroicLeftFacing"/>
1107     <xsd:enumeration value="perspectiveHeroicRightFacing"/>
1108     <xsd:enumeration value="perspectiveHeroicExtremeLeftFacing"/>
1109     <xsd:enumeration value="perspectiveHeroicExtremeRightFacing"/>
1110     <xsd:enumeration value="perspectiveRelaxed"/>
1111     <xsd:enumeration value="perspectiveRelaxedModerately"/>
1112   </xsd:restriction>
1113 </xsd:simpleType>
1114 <xsd:simpleType name="ST_FOVAngle">
1115   <xsd:restriction base="ST_Angle">
1116     <xsd:minInclusive value="0"/>
1117     <xsd:maxInclusive value="10800000"/>
1118   </xsd:restriction>
1119 </xsd:simpleType>
1120 <xsd:complexType name="CT_Camera">
1121   <xsd:sequence>
1122     <xsd:element name="rot" type="CT_SphereCoords" minOccurs="0" maxOccurs="1"/>
1123   </xsd:sequence>
1124   <xsd:attribute name="prst" type="ST_PresetCameraType" use="required"/>
1125   <xsd:attribute name="fov" type="ST_FOVAngle" use="optional"/>
1126   <xsd:attribute name="zoom" type="ST_PositivePercentage" use="optional" default="100%"/>
1127 </xsd:complexType>
1128 <xsd:simpleType name="ST_LightRigDirection">
1129   <xsd:restriction base="xsd:token">
1130     <xsd:enumeration value="tl"/>
1131     <xsd:enumeration value="t"/>

```

```

1132     <xsd:enumeration value="tr"/>
1133     <xsd:enumeration value="l"/>
1134     <xsd:enumeration value="r"/>
1135     <xsd:enumeration value="bl"/>
1136     <xsd:enumeration value="b"/>
1137     <xsd:enumeration value="br"/>
1138   </xsd:restriction>
1139 </xsd:simpleType>
1140 <xsd:simpleType name="ST_LightRigType">
1141   <xsd:restriction base="xsd:token">
1142     <xsd:enumeration value="legacyFlat1"/>
1143     <xsd:enumeration value="legacyFlat2"/>
1144     <xsd:enumeration value="legacyFlat3"/>
1145     <xsd:enumeration value="legacyFlat4"/>
1146     <xsd:enumeration value="legacyNormal1"/>
1147     <xsd:enumeration value="legacyNormal2"/>
1148     <xsd:enumeration value="legacyNormal3"/>
1149     <xsd:enumeration value="legacyNormal4"/>
1150     <xsd:enumeration value="legacyHarsh1"/>
1151     <xsd:enumeration value="legacyHarsh2"/>
1152     <xsd:enumeration value="legacyHarsh3"/>
1153     <xsd:enumeration value="legacyHarsh4"/>
1154     <xsd:enumeration value="threePt"/>
1155     <xsd:enumeration value="balanced"/>
1156     <xsd:enumeration value="soft"/>
1157     <xsd:enumeration value="harsh"/>
1158     <xsd:enumeration value="flood"/>
1159     <xsd:enumeration value="contrasting"/>
1160     <xsd:enumeration value="morning"/>
1161     <xsd:enumeration value="sunrise"/>
1162     <xsd:enumeration value="sunset"/>
1163     <xsd:enumeration value="chilly"/>
1164     <xsd:enumeration value="freezing"/>
1165     <xsd:enumeration value="flat"/>
1166     <xsd:enumeration value="twoPt"/>
1167     <xsd:enumeration value="glow"/>
1168     <xsd:enumeration value="brightRoom"/>
1169   </xsd:restriction>
1170 </xsd:simpleType>
1171 <xsd:complexType name="CT_LightRig">
1172   <xsd:sequence>
1173     <xsd:element name="rot" type="CT_SphereCoords" minOccurs="0" maxOccurs="1"/>
1174   </xsd:sequence>
1175   <xsd:attribute name="rig" type="ST_LightRigType" use="required"/>
1176   <xsd:attribute name="dir" type="ST_LightRigDirection" use="required"/>
1177 </xsd:complexType>
1178 <xsd:complexType name="CT_Scene3D">
1179   <xsd:sequence>
1180     <xsd:element name="camera" type="CT_Camera" minOccurs="1" maxOccurs="1"/>
1181     <xsd:element name="lightRig" type="CT_LightRig" minOccurs="1" maxOccurs="1"/>
1182     <xsd:element name="backdrop" type="CT_Backdrop" minOccurs="0" maxOccurs="1"/>
1183     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
1184   </xsd:sequence>

```

```

1185 </xsd:complexType>
1186 <xsd:complexType name="CT_Backdrop">
1187   <xsd:sequence>
1188     <xsd:element name="anchor" type="CT_Point3D" minOccurs="1" maxOccurs="1"/>
1189     <xsd:element name="norm" type="CT_Vector3D" minOccurs="1" maxOccurs="1"/>
1190     <xsd:element name="up" type="CT_Vector3D" minOccurs="1" maxOccurs="1"/>
1191     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
1192   </xsd:sequence>
1193 </xsd:complexType>
1194 <xsd:simpleType name="ST_BevelPresetType">
1195   <xsd:restriction base="xsd:token">
1196     <xsd:enumeration value="relaxedInset"/>
1197     <xsd:enumeration value="circle"/>
1198     <xsd:enumeration value="slope"/>
1199     <xsd:enumeration value="cross"/>
1200     <xsd:enumeration value="angle"/>
1201     <xsd:enumeration value="softRound"/>
1202     <xsd:enumeration value="convex"/>
1203     <xsd:enumeration value="coolSlant"/>
1204     <xsd:enumeration value="divot"/>
1205     <xsd:enumeration value="riblet"/>
1206     <xsd:enumeration value="hardEdge"/>
1207     <xsd:enumeration value="artDeco"/>
1208   </xsd:restriction>
1209 </xsd:simpleType>
1210 <xsd:complexType name="CT_Bevel">
1211   <xsd:attribute name="w" type="ST_PositiveCoordinate" use="optional" default="76200"/>
1212   <xsd:attribute name="h" type="ST_PositiveCoordinate" use="optional" default="76200"/>
1213   <xsd:attribute name="prst" type="ST_BevelPresetType" use="optional" default="circle"/>
1214 </xsd:complexType>
1215 <xsd:simpleType name="ST_PresetMaterialType">
1216   <xsd:restriction base="xsd:token">
1217     <xsd:enumeration value="legacyMatte"/>
1218     <xsd:enumeration value="legacyPlastic"/>
1219     <xsd:enumeration value="legacyMetal"/>
1220     <xsd:enumeration value="legacyWireframe"/>
1221     <xsd:enumeration value="matte"/>
1222     <xsd:enumeration value="plastic"/>
1223     <xsd:enumeration value="metal"/>
1224     <xsd:enumeration value="warmMatte"/>
1225     <xsd:enumeration value="translucentPowder"/>
1226     <xsd:enumeration value="powder"/>
1227     <xsd:enumeration value="dkEdge"/>
1228     <xsd:enumeration value="softEdge"/>
1229     <xsd:enumeration value="clear"/>
1230     <xsd:enumeration value="flat"/>
1231     <xsd:enumeration value="softmetal"/>
1232   </xsd:restriction>
1233 </xsd:simpleType>
1234 <xsd:complexType name="CT_Shape3D">
1235   <xsd:sequence>
1236     <xsd:element name="bevelT" type="CT_Bevel" minOccurs="0" maxOccurs="1"/>
1237     <xsd:element name="bevelB" type="CT_Bevel" minOccurs="0" maxOccurs="1"/>

```

```

1238     <xsd:element name="extrusionClr" type="CT_Color" minOccurs="0" maxOccurs="1"/>
1239     <xsd:element name="contourClr" type="CT_Color" minOccurs="0" maxOccurs="1"/>
1240     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
1241   </xsd:sequence>
1242   <xsd:attribute name="z" type="ST_Coordinate" use="optional" default="0"/>
1243   <xsd:attribute name="extrusionH" type="ST_PositiveCoordinate" use="optional" default="0"/>
1244   <xsd:attribute name="contourW" type="ST_PositiveCoordinate" use="optional" default="0"/>
1245   <xsd:attribute name="prstMaterial" type="ST_PresetMaterialType" use="optional"
1246     default="warmMatte"/>
1247 </xsd:complexType>
1248 <xsd:complexType name="CT_FlatText">
1249   <xsd:attribute name="z" type="ST_Coordinate" use="optional" default="0"/>
1250 </xsd:complexType>
1251 <xsd:group name="EG_Text3D">
1252   <xsd:choice>
1253     <xsd:element name="sp3d" type="CT_Shape3D" minOccurs="1" maxOccurs="1"/>
1254     <xsd:element name="flatTx" type="CT_FlatText" minOccurs="1" maxOccurs="1"/>
1255   </xsd:choice>
1256 </xsd:group>
1257 <xsd:complexType name="CT_AlphaBiLevelEffect">
1258   <xsd:attribute name="thresh" type="ST_PositiveFixedPercentage" use="required"/>
1259 </xsd:complexType>
1260 <xsd:complexType name="CT_AlphaCeilingEffect"/>
1261 <xsd:complexType name="CT_AlphaFloorEffect"/>
1262 <xsd:complexType name="CT_AlphaInverseEffect">
1263   <xsd:sequence>
1264     <xsd:group ref="EG_ColorChoice" minOccurs="0" maxOccurs="1"/>
1265   </xsd:sequence>
1266 </xsd:complexType>
1267 <xsd:complexType name="CT_AlphaModulateFixedEffect">
1268   <xsd:attribute name="amt" type="ST_PositivePercentage" use="optional" default="100%"/>
1269 </xsd:complexType>
1270 <xsd:complexType name="CT_AlphaOutsetEffect">
1271   <xsd:attribute name="rad" type="ST_Coordinate" use="optional" default="0"/>
1272 </xsd:complexType>
1273 <xsd:complexType name="CT_AlphaReplaceEffect">
1274   <xsd:attribute name="a" type="ST_PositiveFixedPercentage" use="required"/>
1275 </xsd:complexType>
1276 <xsd:complexType name="CT_BiLevelEffect">
1277   <xsd:attribute name="thresh" type="ST_PositiveFixedPercentage" use="required"/>
1278 </xsd:complexType>
1279 <xsd:complexType name="CT_BlurEffect">
1280   <xsd:attribute name="rad" type="ST_PositiveCoordinate" use="optional" default="0"/>
1281   <xsd:attribute name="grow" type="xsd:boolean" use="optional" default="true"/>
1282 </xsd:complexType>
1283 <xsd:complexType name="CT_ColorChangeEffect">
1284   <xsd:sequence>
1285     <xsd:element name="clrFrom" type="CT_Color" minOccurs="1" maxOccurs="1"/>
1286     <xsd:element name="clrTo" type="CT_Color" minOccurs="1" maxOccurs="1"/>
1287   </xsd:sequence>
1288   <xsd:attribute name="useA" type="xsd:boolean" use="optional" default="true"/>
1289 </xsd:complexType>
1290 <xsd:complexType name="CT_ColorReplaceEffect">

```

```

1291     <xsd:sequence>
1292         <xsd:group ref="EG_ColorChoice" minOccurs="1" maxOccurs="1"/>
1293     </xsd:sequence>
1294 </xsd:complexType>
1295 <xsd:complexType name="CT_DuotoneEffect">
1296     <xsd:sequence>
1297         <xsd:group ref="EG_ColorChoice" minOccurs="2" maxOccurs="2"/>
1298     </xsd:sequence>
1299 </xsd:complexType>
1300 <xsd:complexType name="CT_GlowEffect">
1301     <xsd:sequence>
1302         <xsd:group ref="EG_ColorChoice" minOccurs="1" maxOccurs="1"/>
1303     </xsd:sequence>
1304     <xsd:attribute name="rad" type="ST_PositiveCoordinate" use="optional" default="0"/>
1305 </xsd:complexType>
1306 <xsd:complexType name="CT_GrayscaleEffect"/>
1307 <xsd:complexType name="CT_HSLEffect">
1308     <xsd:attribute name="hue" type="ST_PositiveFixedAngle" use="optional" default="0"/>
1309     <xsd:attribute name="sat" type="ST_FixedPercentage" use="optional" default="0%"/>
1310     <xsd:attribute name="lum" type="ST_FixedPercentage" use="optional" default="0%"/>
1311 </xsd:complexType>
1312 <xsd:complexType name="CT_InnerShadowEffect">
1313     <xsd:sequence>
1314         <xsd:group ref="EG_ColorChoice" minOccurs="1" maxOccurs="1"/>
1315     </xsd:sequence>
1316     <xsd:attribute name="blurRad" type="ST_PositiveCoordinate" use="optional" default="0"/>
1317     <xsd:attribute name="dist" type="ST_PositiveCoordinate" use="optional" default="0"/>
1318     <xsd:attribute name="dir" type="ST_PositiveFixedAngle" use="optional" default="0"/>
1319 </xsd:complexType>
1320 <xsd:complexType name="CT_LuminanceEffect">
1321     <xsd:attribute name="bright" type="ST_FixedPercentage" use="optional" default="0%"/>
1322     <xsd:attribute name="contrast" type="ST_FixedPercentage" use="optional" default="0%"/>
1323 </xsd:complexType>
1324 <xsd:complexType name="CT_OuterShadowEffect">
1325     <xsd:sequence>
1326         <xsd:group ref="EG_ColorChoice" minOccurs="1" maxOccurs="1"/>
1327     </xsd:sequence>
1328     <xsd:attribute name="blurRad" type="ST_PositiveCoordinate" use="optional" default="0"/>
1329     <xsd:attribute name="dist" type="ST_PositiveCoordinate" use="optional" default="0"/>
1330     <xsd:attribute name="dir" type="ST_PositiveFixedAngle" use="optional" default="0"/>
1331     <xsd:attribute name="sx" type="ST_Percentage" use="optional" default="100%"/>
1332     <xsd:attribute name="sy" type="ST_Percentage" use="optional" default="100%"/>
1333     <xsd:attribute name="kx" type="ST_FixedAngle" use="optional" default="0"/>
1334     <xsd:attribute name="ky" type="ST_FixedAngle" use="optional" default="0"/>
1335     <xsd:attribute name="align" type="ST_RectAlignment" use="optional" default="b"/>
1336     <xsd:attribute name="rotWithShape" type="xsd:boolean" use="optional" default="true"/>
1337 </xsd:complexType>
1338 <xsd:simpleType name="ST_PresetShadowVal">
1339     <xsd:restriction base="xsd:token">
1340         <xsd:enumeration value="shdw1"/>
1341         <xsd:enumeration value="shdw2"/>
1342         <xsd:enumeration value="shdw3"/>
1343         <xsd:enumeration value="shdw4"/>

```



```

1344     <xsd:enumeration value="shdw5"/>
1345     <xsd:enumeration value="shdw6"/>
1346     <xsd:enumeration value="shdw7"/>
1347     <xsd:enumeration value="shdw8"/>
1348     <xsd:enumeration value="shdw9"/>
1349     <xsd:enumeration value="shdw10"/>
1350     <xsd:enumeration value="shdw11"/>
1351     <xsd:enumeration value="shdw12"/>
1352     <xsd:enumeration value="shdw13"/>
1353     <xsd:enumeration value="shdw14"/>
1354     <xsd:enumeration value="shdw15"/>
1355     <xsd:enumeration value="shdw16"/>
1356     <xsd:enumeration value="shdw17"/>
1357     <xsd:enumeration value="shdw18"/>
1358     <xsd:enumeration value="shdw19"/>
1359     <xsd:enumeration value="shdw20"/>
1360 </xsd:restriction>
1361 </xsd:simpleType>
1362 <xsd:complexType name="CT_PresetShadowEffect">
1363     <xsd:sequence>
1364         <xsd:group ref="EG_ColorChoice" minOccurs="1" maxOccurs="1"/>
1365     </xsd:sequence>
1366     <xsd:attribute name="prst" type="ST_PresetShadowVal" use="required"/>
1367     <xsd:attribute name="dist" type="ST_PositiveCoordinate" use="optional" default="0"/>
1368     <xsd:attribute name="dir" type="ST_PositiveFixedAngle" use="optional" default="0"/>
1369 </xsd:complexType>
1370 <xsd:complexType name="CT_ReflectionEffect">
1371     <xsd:attribute name="blurRad" type="ST_PositiveCoordinate" use="optional" default="0"/>
1372     <xsd:attribute name="stA" type="ST_PositiveFixedPercentage" use="optional" default="100"/>
1373     <xsd:attribute name="stPos" type="ST_PositiveFixedPercentage" use="optional" default="0"/>
1374     <xsd:attribute name="endA" type="ST_PositiveFixedPercentage" use="optional" default="0"/>
1375     <xsd:attribute name="endPos" type="ST_PositiveFixedPercentage" use="optional" default="100"/>
1376     <xsd:attribute name="dist" type="ST_PositiveCoordinate" use="optional" default="0"/>
1377     <xsd:attribute name="dir" type="ST_PositiveFixedAngle" use="optional" default="0"/>
1378     <xsd:attribute name="fadeDir" type="ST_PositiveFixedAngle" use="optional" default="5400000"/>
1379     <xsd:attribute name="sx" type="ST_Percentage" use="optional" default="100"/>
1380     <xsd:attribute name="sy" type="ST_Percentage" use="optional" default="100"/>
1381     <xsd:attribute name="kx" type="ST_FixedAngle" use="optional" default="0"/>
1382     <xsd:attribute name="ky" type="ST_FixedAngle" use="optional" default="0"/>
1383     <xsd:attribute name="algn" type="ST_RectAlignment" use="optional" default="b"/>
1384     <xsd:attribute name="rotWithShape" type="xsd:boolean" use="optional" default="true"/>
1385 </xsd:complexType>
1386 <xsd:complexType name="CT_RelativeOffsetEffect">
1387     <xsd:attribute name="tx" type="ST_Percentage" use="optional" default="0"/>
1388     <xsd:attribute name="ty" type="ST_Percentage" use="optional" default="0"/>
1389 </xsd:complexType>
1390 <xsd:complexType name="CT_SoftEdgesEffect">
1391     <xsd:attribute name="rad" type="ST_PositiveCoordinate" use="required"/>
1392 </xsd:complexType>
1393 <xsd:complexType name="CT_TintEffect">
1394     <xsd:attribute name="hue" type="ST_PositiveFixedAngle" use="optional" default="0"/>
1395     <xsd:attribute name="amt" type="ST_FixedPercentage" use="optional" default="0"/>
1396 </xsd:complexType>

```

```

1397 <xsd:complexType name="CT_TransformEffect">
1398   <xsd:attribute name="sx" type="ST_Percentage" use="optional" default="100%"/>
1399   <xsd:attribute name="sy" type="ST_Percentage" use="optional" default="100%"/>
1400   <xsd:attribute name="kx" type="ST_FixedAngle" use="optional" default="0"/>
1401   <xsd:attribute name="ky" type="ST_FixedAngle" use="optional" default="0"/>
1402   <xsd:attribute name="tx" type="ST_Coordinate" use="optional" default="0"/>
1403   <xsd:attribute name="ty" type="ST_Coordinate" use="optional" default="0"/>
1404 </xsd:complexType>
1405 <xsd:complexType name="CT_NoFillProperties"/>
1406 <xsd:complexType name="CT_SolidColorFillProperties">
1407   <xsd:sequence>
1408     <xsd:group ref="EG_ColorChoice" minOccurs="0" maxOccurs="1"/>
1409   </xsd:sequence>
1410 </xsd:complexType>
1411 <xsd:complexType name="CT_LinearShadeProperties">
1412   <xsd:attribute name="ang" type="ST_PositiveFixedAngle" use="optional"/>
1413   <xsd:attribute name="scaled" type="xsd:boolean" use="optional"/>
1414 </xsd:complexType>
1415 <xsd:simpleType name="ST_PathShadeType">
1416   <xsd:restriction base="xsd:token">
1417     <xsd:enumeration value="shape"/>
1418     <xsd:enumeration value="circle"/>
1419     <xsd:enumeration value="rect"/>
1420   </xsd:restriction>
1421 </xsd:simpleType>
1422 <xsd:complexType name="CT_PathShadeProperties">
1423   <xsd:sequence>
1424     <xsd:element name="fillToRect" type="CT_RelativeRect" minOccurs="0" maxOccurs="1"/>
1425   </xsd:sequence>
1426   <xsd:attribute name="path" type="ST_PathShadeType" use="optional"/>
1427 </xsd:complexType>
1428 <xsd:group name="EG_ShadeProperties">
1429   <xsd:choice>
1430     <xsd:element name="lin" type="CT_LinearShadeProperties" minOccurs="1" maxOccurs="1"/>
1431     <xsd:element name="path" type="CT_PathShadeProperties" minOccurs="1" maxOccurs="1"/>
1432   </xsd:choice>
1433 </xsd:group>
1434 <xsd:simpleType name="ST_TileFlipMode">
1435   <xsd:restriction base="xsd:token">
1436     <xsd:enumeration value="none"/>
1437     <xsd:enumeration value="x"/>
1438     <xsd:enumeration value="y"/>
1439     <xsd:enumeration value="xy"/>
1440   </xsd:restriction>
1441 </xsd:simpleType>
1442 <xsd:complexType name="CT_GradientStop">
1443   <xsd:sequence>
1444     <xsd:group ref="EG_ColorChoice" minOccurs="1" maxOccurs="1"/>
1445   </xsd:sequence>
1446   <xsd:attribute name="pos" type="ST_PositiveFixedPercentage" use="required"/>
1447 </xsd:complexType>
1448 <xsd:complexType name="CT_GradientStopList">
1449   <xsd:sequence>

```



```

1450     <xsd:element name="gs" type="CT_GradientStop" minOccurs="2" maxOccurs="unbounded"/>
1451   </xsd:sequence>
1452 </xsd:complexType>
1453 <xsd:complexType name="CT_GradientFillProperties">
1454   <xsd:sequence>
1455     <xsd:element name="gsList" type="CT_GradientStopList" minOccurs="0" maxOccurs="1"/>
1456     <xsd:group ref="EG_ShadeProperties" minOccurs="0" maxOccurs="1"/>
1457     <xsd:element name="tileRect" type="CT_RelativeRect" minOccurs="0" maxOccurs="1"/>
1458   </xsd:sequence>
1459   <xsd:attribute name="flip" type="ST_TileFlipMode" use="optional"/>
1460   <xsd:attribute name="rotWithShape" type="xsd:boolean" use="optional"/>
1461 </xsd:complexType>
1462 <xsd:complexType name="CT_TileInfoProperties">
1463   <xsd:attribute name="tx" type="ST_Coordinate" use="optional"/>
1464   <xsd:attribute name="ty" type="ST_Coordinate" use="optional"/>
1465   <xsd:attribute name="sx" type="ST_Percentage" use="optional"/>
1466   <xsd:attribute name="sy" type="ST_Percentage" use="optional"/>
1467   <xsd:attribute name="flip" type="ST_TileFlipMode" use="optional"/>
1468   <xsd:attribute name="align" type="ST_RectAlignment" use="optional"/>
1469 </xsd:complexType>
1470 <xsd:complexType name="CT_StretchInfoProperties">
1471   <xsd:sequence>
1472     <xsd:element name="fillRect" type="CT_RelativeRect" minOccurs="0" maxOccurs="1"/>
1473   </xsd:sequence>
1474 </xsd:complexType>
1475 <xsd:group name="EG_FillModeProperties">
1476   <xsd:choice>
1477     <xsd:element name="tile" type="CT_TileInfoProperties" minOccurs="1" maxOccurs="1"/>
1478     <xsd:element name="stretch" type="CT_StretchInfoProperties" minOccurs="1" maxOccurs="1"/>
1479   </xsd:choice>
1480 </xsd:group>
1481 <xsd:simpleType name="ST_BlipCompression">
1482   <xsd:restriction base="xsd:token">
1483     <xsd:enumeration value="email"/>
1484     <xsd:enumeration value="screen"/>
1485     <xsd:enumeration value="print"/>
1486     <xsd:enumeration value="hqprint"/>
1487     <xsd:enumeration value="none"/>
1488   </xsd:restriction>
1489 </xsd:simpleType>
1490 <xsd:complexType name="CT_Blip">
1491   <xsd:sequence>
1492     <xsd:choice minOccurs="0" maxOccurs="unbounded">
1493       <xsd:element name="alphaBiLevel" type="CT_AlphaBiLevelEffect" minOccurs="1"
1494         maxOccurs="1"/>
1495       <xsd:element name="alphaCeiling" type="CT_AlphaCeilingEffect" minOccurs="1"
1496         maxOccurs="1"/>
1497       <xsd:element name="alphaFloor" type="CT_AlphaFloorEffect" minOccurs="1" maxOccurs="1"/>
1498       <xsd:element name="alphaInv" type="CT_AlphaInverseEffect" minOccurs="1" maxOccurs="1"/>
1499       <xsd:element name="alphaMod" type="CT_AlphaModulateEffect" minOccurs="1"
1500         maxOccurs="1"/>
1501       <xsd:element name="alphaModFix" type="CT_AlphaModulateFixedEffect" minOccurs="1"
1502         maxOccurs="1"/>

```

```

1503     <xsd:element name="alphaRepl" type="CT_AlphaReplaceEffect" minOccurs="1"
1504         maxOccurs="1"/>
1505     <xsd:element name="biLevel" type="CT_BiLevelEffect" minOccurs="1" maxOccurs="1"/>
1506     <xsd:element name="blur" type="CT_BlurEffect" minOccurs="1" maxOccurs="1"/>
1507     <xsd:element name="clrChange" type="CT_ColorChangeEffect" minOccurs="1" maxOccurs="1"/>
1508     <xsd:element name="clrRepl" type="CT_ColorReplaceEffect" minOccurs="1" maxOccurs="1"/>
1509     <xsd:element name="duotone" type="CT_DuotoneEffect" minOccurs="1" maxOccurs="1"/>
1510     <xsd:element name="fillOverlay" type="CT_FillOverlayEffect" minOccurs="1"
1511         maxOccurs="1"/>
1512     <xsd:element name="grayscale" type="CT_GrayscaleEffect" minOccurs="1" maxOccurs="1"/>
1513     <xsd:element name="hsl" type="CT_HSLEffect" minOccurs="1" maxOccurs="1"/>
1514     <xsd:element name="lum" type="CT_LuminanceEffect" minOccurs="1" maxOccurs="1"/>
1515     <xsd:element name="tint" type="CT_TintEffect" minOccurs="1" maxOccurs="1"/>
1516 </xsd:choice>
1517     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
1518 </xsd:sequence>
1519 <xsd:attributeGroup ref="AG_Blob"/>
1520 <xsd:attribute name="cstate" type="ST_BlipCompression" use="optional" default="none"/>
1521 </xsd:complexType>
1522 <xsd:complexType name="CT_BlipFillProperties">
1523     <xsd:sequence>
1524         <xsd:element name="blip" type="CT_Blip" minOccurs="0" maxOccurs="1"/>
1525         <xsd:element name="srcRect" type="CT_RelativeRect" minOccurs="0" maxOccurs="1"/>
1526         <xsd:group ref="EG_FillModeProperties" minOccurs="0" maxOccurs="1"/>
1527     </xsd:sequence>
1528     <xsd:attribute name="dpi" type="xsd:unsignedInt" use="optional"/>
1529     <xsd:attribute name="rotWithShape" type="xsd:boolean" use="optional"/>
1530 </xsd:complexType>
1531 <xsd:simpleType name="ST_PresetPatternVal">
1532     <xsd:restriction base="xsd:token">
1533         <xsd:enumeration value="pct5"/>
1534         <xsd:enumeration value="pct10"/>
1535         <xsd:enumeration value="pct20"/>
1536         <xsd:enumeration value="pct25"/>
1537         <xsd:enumeration value="pct30"/>
1538         <xsd:enumeration value="pct40"/>
1539         <xsd:enumeration value="pct50"/>
1540         <xsd:enumeration value="pct60"/>
1541         <xsd:enumeration value="pct70"/>
1542         <xsd:enumeration value="pct75"/>
1543         <xsd:enumeration value="pct80"/>
1544         <xsd:enumeration value="pct90"/>
1545         <xsd:enumeration value="horz"/>
1546         <xsd:enumeration value="vert"/>
1547         <xsd:enumeration value="ltHorz"/>
1548         <xsd:enumeration value="ltVert"/>
1549         <xsd:enumeration value="dkHorz"/>
1550         <xsd:enumeration value="dkVert"/>
1551         <xsd:enumeration value="narHorz"/>
1552         <xsd:enumeration value="narVert"/>
1553         <xsd:enumeration value="dashHorz"/>
1554         <xsd:enumeration value="dashVert"/>
1555         <xsd:enumeration value="cross"/>

```

```

1556     <xsd:enumeration value="dnDiag"/>
1557     <xsd:enumeration value="upDiag"/>
1558     <xsd:enumeration value="ltDnDiag"/>
1559     <xsd:enumeration value="ltUpDiag"/>
1560     <xsd:enumeration value="dkDnDiag"/>
1561     <xsd:enumeration value="dkUpDiag"/>
1562     <xsd:enumeration value="wdDnDiag"/>
1563     <xsd:enumeration value="wdUpDiag"/>
1564     <xsd:enumeration value="dashDnDiag"/>
1565     <xsd:enumeration value="dashUpDiag"/>
1566     <xsd:enumeration value="diagCross"/>
1567     <xsd:enumeration value="smCheck"/>
1568     <xsd:enumeration value="lgCheck"/>
1569     <xsd:enumeration value="smGrid"/>
1570     <xsd:enumeration value="lgGrid"/>
1571     <xsd:enumeration value="dotGrid"/>
1572     <xsd:enumeration value="smConfetti"/>
1573     <xsd:enumeration value="lgConfetti"/>
1574     <xsd:enumeration value="horzBrick"/>
1575     <xsd:enumeration value="diagBrick"/>
1576     <xsd:enumeration value="solidDmnd"/>
1577     <xsd:enumeration value="openDmnd"/>
1578     <xsd:enumeration value="dotDmnd"/>
1579     <xsd:enumeration value="plaid"/>
1580     <xsd:enumeration value="sphere"/>
1581     <xsd:enumeration value="weave"/>
1582     <xsd:enumeration value="divot"/>
1583     <xsd:enumeration value="shingle"/>
1584     <xsd:enumeration value="wave"/>
1585     <xsd:enumeration value="trellis"/>
1586     <xsd:enumeration value="zigZag"/>
1587 </xsd:restriction>
1588 </xsd:simpleType>
1589 <xsd:complexType name="CT_PatternFillProperties">
1590     <xsd:sequence>
1591         <xsd:element name="fgClr" type="CT_Color" minOccurs="0" maxOccurs="1"/>
1592         <xsd:element name="bgClr" type="CT_Color" minOccurs="0" maxOccurs="1"/>
1593     </xsd:sequence>
1594     <xsd:attribute name="prst" type="ST_PresetPatternVal" use="optional"/>
1595 </xsd:complexType>
1596 <xsd:complexType name="CT_GroupFillProperties"/>
1597 <xsd:group name="EG_FillProperties">
1598     <xsd:choice>
1599         <xsd:element name="noFill" type="CT_NoFillProperties" minOccurs="1" maxOccurs="1"/>
1600         <xsd:element name="solidFill" type="CT_SolidColorFillProperties" minOccurs="1"
1601             maxOccurs="1"/>
1602         <xsd:element name="gradFill" type="CT_GradientFillProperties" minOccurs="1"
1603             maxOccurs="1"/>
1604         <xsd:element name="blipFill" type="CT_BlipFillProperties" minOccurs="1" maxOccurs="1"/>
1605         <xsd:element name="pattFill" type="CT_PatternFillProperties" minOccurs="1" maxOccurs="1"/>
1606         <xsd:element name="grpFill" type="CT_GroupFillProperties" minOccurs="1" maxOccurs="1"/>
1607     </xsd:choice>
1608 </xsd:group>

```

```

1609 <xsd:complexType name="CT_FillProperties">
1610   <xsd:sequence>
1611     <xsd:group ref="EG_FillProperties" minOccurs="1" maxOccurs="1"/>
1612   </xsd:sequence>
1613 </xsd:complexType>
1614 <xsd:complexType name="CT_FillEffect">
1615   <xsd:sequence>
1616     <xsd:group ref="EG_FillProperties" minOccurs="1" maxOccurs="1"/>
1617   </xsd:sequence>
1618 </xsd:complexType>
1619 <xsd:simpleType name="ST_BlendMode">
1620   <xsd:restriction base="xsd:token">
1621     <xsd:enumeration value="over"/>
1622     <xsd:enumeration value="mult"/>
1623     <xsd:enumeration value="screen"/>
1624     <xsd:enumeration value="darken"/>
1625     <xsd:enumeration value="lighten"/>
1626   </xsd:restriction>
1627 </xsd:simpleType>
1628 <xsd:complexType name="CT_FillOverlayEffect">
1629   <xsd:sequence>
1630     <xsd:group ref="EG_FillProperties" minOccurs="1" maxOccurs="1"/>
1631   </xsd:sequence>
1632   <xsd:attribute name="blend" type="ST_BlendMode" use="required"/>
1633 </xsd:complexType>
1634 <xsd:complexType name="CT_EffectReference">
1635   <xsd:attribute name="ref" type="xsd:token" use="required"/>
1636 </xsd:complexType>
1637 <xsd:group name="EG_Effect">
1638   <xsd:choice>
1639     <xsd:element name="cont" type="CT_EffectContainer" minOccurs="1" maxOccurs="1"/>
1640     <xsd:element name="effect" type="CT_EffectReference" minOccurs="1" maxOccurs="1"/>
1641     <xsd:element name="alphaBiLevel" type="CT_AlphaBiLevelEffect" minOccurs="1"
1642       maxOccurs="1"/>
1643     <xsd:element name="alphaCeiling" type="CT_AlphaCeilingEffect" minOccurs="1"
1644       maxOccurs="1"/>
1645     <xsd:element name="alphaFloor" type="CT_AlphaFloorEffect" minOccurs="1" maxOccurs="1"/>
1646     <xsd:element name="alphaInv" type="CT_AlphaInverseEffect" minOccurs="1" maxOccurs="1"/>
1647     <xsd:element name="alphaMod" type="CT_AlphaModulateEffect" minOccurs="1" maxOccurs="1"/>
1648     <xsd:element name="alphaModFix" type="CT_AlphaModulateFixedEffect" minOccurs="1"
1649       maxOccurs="1"/>
1650     <xsd:element name="alphaOutset" type="CT_AlphaOutsetEffect" minOccurs="1" maxOccurs="1"/>
1651     <xsd:element name="alphaRepl" type="CT_AlphaReplaceEffect" minOccurs="1" maxOccurs="1"/>
1652     <xsd:element name="biLevel" type="CT_BiLevelEffect" minOccurs="1" maxOccurs="1"/>
1653     <xsd:element name="blend" type="CT_BlendEffect" minOccurs="1" maxOccurs="1"/>
1654     <xsd:element name="blur" type="CT_BlurEffect" minOccurs="1" maxOccurs="1"/>
1655     <xsd:element name="clrChange" type="CT_ColorChangeEffect" minOccurs="1" maxOccurs="1"/>
1656     <xsd:element name="clrRepl" type="CT_ColorReplaceEffect" minOccurs="1" maxOccurs="1"/>
1657     <xsd:element name="duotone" type="CT_DuotoneEffect" minOccurs="1" maxOccurs="1"/>
1658     <xsd:element name="fill" type="CT_FillEffect" minOccurs="1" maxOccurs="1"/>
1659     <xsd:element name="fillOverlay" type="CT_FillOverlayEffect" minOccurs="1" maxOccurs="1"/>
1660     <xsd:element name="glow" type="CT_GlowEffect" minOccurs="1" maxOccurs="1"/>
1661     <xsd:element name="grayscale" type="CT_GrayscaleEffect" minOccurs="1" maxOccurs="1"/>

```

```

1662     <xsd:element name="hsl" type="CT_HSLEffect" minOccurs="1" maxOccurs="1"/>
1663     <xsd:element name="innerShdw" type="CT_InnerShadowEffect" minOccurs="1" maxOccurs="1"/>
1664     <xsd:element name="lum" type="CT_LuminanceEffect" minOccurs="1" maxOccurs="1"/>
1665     <xsd:element name="outerShdw" type="CT_OuterShadowEffect" minOccurs="1" maxOccurs="1"/>
1666     <xsd:element name="prstShdw" type="CT_PresetShadowEffect" minOccurs="1" maxOccurs="1"/>
1667     <xsd:element name="reflection" type="CT_ReflectionEffect" minOccurs="1" maxOccurs="1"/>
1668     <xsd:element name="relOff" type="CT_RelativeOffsetEffect" minOccurs="1" maxOccurs="1"/>
1669     <xsd:element name="softEdge" type="CT_SoftEdgesEffect" minOccurs="1" maxOccurs="1"/>
1670     <xsd:element name="tint" type="CT_TintEffect" minOccurs="1" maxOccurs="1"/>
1671     <xsd:element name="xfrm" type="CT_TransformEffect" minOccurs="1" maxOccurs="1"/>
1672   </xsd:choice>
1673 </xsd:group>
1674 <xsd:simpleType name="ST_EffectContainerType">
1675   <xsd:restriction base="xsd:token">
1676     <xsd:enumeration value="sib"/>
1677     <xsd:enumeration value="tree"/>
1678   </xsd:restriction>
1679 </xsd:simpleType>
1680 <xsd:complexType name="CT_EffectContainer">
1681   <xsd:group ref="EG_Effect" minOccurs="0" maxOccurs="unbounded"/>
1682   <xsd:attribute name="type" type="ST_EffectContainerType" use="optional" default="sib"/>
1683   <xsd:attribute name="name" type="xsd:token" use="optional"/>
1684 </xsd:complexType>
1685 <xsd:complexType name="CT_AlphaModulateEffect">
1686   <xsd:sequence>
1687     <xsd:element name="cont" type="CT_EffectContainer" minOccurs="1" maxOccurs="1"/>
1688   </xsd:sequence>
1689 </xsd:complexType>
1690 <xsd:complexType name="CT_BlendEffect">
1691   <xsd:sequence>
1692     <xsd:element name="cont" type="CT_EffectContainer" minOccurs="1" maxOccurs="1"/>
1693   </xsd:sequence>
1694   <xsd:attribute name="blend" type="ST_BlendMode" use="required"/>
1695 </xsd:complexType>
1696 <xsd:complexType name="CT_EffectList">
1697   <xsd:sequence>
1698     <xsd:element name="blur" type="CT_BlurEffect" minOccurs="0" maxOccurs="1"/>
1699     <xsd:element name="fillOverlay" type="CT_FillOverlayEffect" minOccurs="0" maxOccurs="1"/>
1700     <xsd:element name="glow" type="CT_GlowEffect" minOccurs="0" maxOccurs="1"/>
1701     <xsd:element name="innerShdw" type="CT_InnerShadowEffect" minOccurs="0" maxOccurs="1"/>
1702     <xsd:element name="outerShdw" type="CT_OuterShadowEffect" minOccurs="0" maxOccurs="1"/>
1703     <xsd:element name="prstShdw" type="CT_PresetShadowEffect" minOccurs="0" maxOccurs="1"/>
1704     <xsd:element name="reflection" type="CT_ReflectionEffect" minOccurs="0" maxOccurs="1"/>
1705     <xsd:element name="softEdge" type="CT_SoftEdgesEffect" minOccurs="0" maxOccurs="1"/>
1706   </xsd:sequence>
1707 </xsd:complexType>
1708 <xsd:group name="EG_EffectProperties">
1709   <xsd:choice>
1710     <xsd:element name="effectList" type="CT_EffectList" minOccurs="1" maxOccurs="1"/>
1711     <xsd:element name="effectDag" type="CT_EffectContainer" minOccurs="1" maxOccurs="1"/>
1712   </xsd:choice>
1713 </xsd:group>
1714 <xsd:complexType name="CT_EffectProperties">

```

```

1715     <xsd:sequence>
1716       <xsd:group ref="EG_EffectProperties" minOccurs="1" maxOccurs="1"/>
1717     </xsd:sequence>
1718   </xsd:complexType>
1719   <xsd:element name="blip" type="CT_Blip"/>
1720   <xsd:simpleType name="ST_ShapeType">
1721     <xsd:restriction base="xsd:token">
1722       <xsd:enumeration value="line"/>
1723       <xsd:enumeration value="lineInv"/>
1724       <xsd:enumeration value="triangle"/>
1725       <xsd:enumeration value="rtTriangle"/>
1726       <xsd:enumeration value="rect"/>
1727       <xsd:enumeration value="diamond"/>
1728       <xsd:enumeration value="parallelogram"/>
1729       <xsd:enumeration value="trapezoid"/>
1730       <xsd:enumeration value="nonIsoscelesTrapezoid"/>
1731       <xsd:enumeration value="pentagon"/>
1732       <xsd:enumeration value="hexagon"/>
1733       <xsd:enumeration value="heptagon"/>
1734       <xsd:enumeration value="octagon"/>
1735       <xsd:enumeration value="decagon"/>
1736       <xsd:enumeration value="dodecagon"/>
1737       <xsd:enumeration value="star4"/>
1738       <xsd:enumeration value="star5"/>
1739       <xsd:enumeration value="star6"/>
1740       <xsd:enumeration value="star7"/>
1741       <xsd:enumeration value="star8"/>
1742       <xsd:enumeration value="star10"/>
1743       <xsd:enumeration value="star12"/>
1744       <xsd:enumeration value="star16"/>
1745       <xsd:enumeration value="star24"/>
1746       <xsd:enumeration value="star32"/>
1747       <xsd:enumeration value="roundRect"/>
1748       <xsd:enumeration value="round1Rect"/>
1749       <xsd:enumeration value="round2SameRect"/>
1750       <xsd:enumeration value="round2DiagRect"/>
1751       <xsd:enumeration value="snipRoundRect"/>
1752       <xsd:enumeration value="snip1Rect"/>
1753       <xsd:enumeration value="snip2SameRect"/>
1754       <xsd:enumeration value="snip2DiagRect"/>
1755       <xsd:enumeration value="plaque"/>
1756       <xsd:enumeration value="ellipse"/>
1757       <xsd:enumeration value="teardrop"/>
1758       <xsd:enumeration value="homePlate"/>
1759       <xsd:enumeration value="chevron"/>
1760       <xsd:enumeration value="pieWedge"/>
1761       <xsd:enumeration value="pie"/>
1762       <xsd:enumeration value="blockArc"/>
1763       <xsd:enumeration value="donut"/>
1764       <xsd:enumeration value="noSmoking"/>
1765       <xsd:enumeration value="rightArrow"/>
1766       <xsd:enumeration value="leftArrow"/>
1767       <xsd:enumeration value="upArrow"/>

```



```

1768 <xsd:enumeration value="downArrow"/>
1769 <xsd:enumeration value="stripedRightArrow"/>
1770 <xsd:enumeration value="notchedRightArrow"/>
1771 <xsd:enumeration value="bentUpArrow"/>
1772 <xsd:enumeration value="leftRightArrow"/>
1773 <xsd:enumeration value="upDownArrow"/>
1774 <xsd:enumeration value="leftUpArrow"/>
1775 <xsd:enumeration value="leftRightUpArrow"/>
1776 <xsd:enumeration value="quadArrow"/>
1777 <xsd:enumeration value="leftArrowCallout"/>
1778 <xsd:enumeration value="rightArrowCallout"/>
1779 <xsd:enumeration value="upArrowCallout"/>
1780 <xsd:enumeration value="downArrowCallout"/>
1781 <xsd:enumeration value="leftRightArrowCallout"/>
1782 <xsd:enumeration value="upDownArrowCallout"/>
1783 <xsd:enumeration value="quadArrowCallout"/>
1784 <xsd:enumeration value="bentArrow"/>
1785 <xsd:enumeration value="uturnArrow"/>
1786 <xsd:enumeration value="circularArrow"/>
1787 <xsd:enumeration value="leftCircularArrow"/>
1788 <xsd:enumeration value="leftRightCircularArrow"/>
1789 <xsd:enumeration value="curvedRightArrow"/>
1790 <xsd:enumeration value="curvedLeftArrow"/>
1791 <xsd:enumeration value="curvedUpArrow"/>
1792 <xsd:enumeration value="curvedDownArrow"/>
1793 <xsd:enumeration value="swooshArrow"/>
1794 <xsd:enumeration value="cube"/>
1795 <xsd:enumeration value="can"/>
1796 <xsd:enumeration value="lightningBolt"/>
1797 <xsd:enumeration value="heart"/>
1798 <xsd:enumeration value="sun"/>
1799 <xsd:enumeration value="moon"/>
1800 <xsd:enumeration value="smileyFace"/>
1801 <xsd:enumeration value="irregularSeal1"/>
1802 <xsd:enumeration value="irregularSeal2"/>
1803 <xsd:enumeration value="foldedCorner"/>
1804 <xsd:enumeration value="bevel"/>
1805 <xsd:enumeration value="frame"/>
1806 <xsd:enumeration value="halfFrame"/>
1807 <xsd:enumeration value="corner"/>
1808 <xsd:enumeration value="diagStripe"/>
1809 <xsd:enumeration value="chord"/>
1810 <xsd:enumeration value="arc"/>
1811 <xsd:enumeration value="leftBracket"/>
1812 <xsd:enumeration value="rightBracket"/>
1813 <xsd:enumeration value="leftBrace"/>
1814 <xsd:enumeration value="rightBrace"/>
1815 <xsd:enumeration value="bracketPair"/>
1816 <xsd:enumeration value="bracePair"/>
1817 <xsd:enumeration value="straightConnector1"/>
1818 <xsd:enumeration value="bentConnector2"/>
1819 <xsd:enumeration value="bentConnector3"/>
1820 <xsd:enumeration value="bentConnector4"/>

```

```

1821 <xsd:enumeration value="bentConnector5"/>
1822 <xsd:enumeration value="curvedConnector2"/>
1823 <xsd:enumeration value="curvedConnector3"/>
1824 <xsd:enumeration value="curvedConnector4"/>
1825 <xsd:enumeration value="curvedConnector5"/>
1826 <xsd:enumeration value="callout1"/>
1827 <xsd:enumeration value="callout2"/>
1828 <xsd:enumeration value="callout3"/>
1829 <xsd:enumeration value="accentCallout1"/>
1830 <xsd:enumeration value="accentCallout2"/>
1831 <xsd:enumeration value="accentCallout3"/>
1832 <xsd:enumeration value="borderCallout1"/>
1833 <xsd:enumeration value="borderCallout2"/>
1834 <xsd:enumeration value="borderCallout3"/>
1835 <xsd:enumeration value="accentBorderCallout1"/>
1836 <xsd:enumeration value="accentBorderCallout2"/>
1837 <xsd:enumeration value="accentBorderCallout3"/>
1838 <xsd:enumeration value="wedgeRectCallout"/>
1839 <xsd:enumeration value="wedgeRoundRectCallout"/>
1840 <xsd:enumeration value="wedgeEllipseCallout"/>
1841 <xsd:enumeration value="cloudCallout"/>
1842 <xsd:enumeration value="cloud"/>
1843 <xsd:enumeration value="ribbon"/>
1844 <xsd:enumeration value="ribbon2"/>
1845 <xsd:enumeration value="ellipseRibbon"/>
1846 <xsd:enumeration value="ellipseRibbon2"/>
1847 <xsd:enumeration value="leftRightRibbon"/>
1848 <xsd:enumeration value="verticalScroll"/>
1849 <xsd:enumeration value="horizontalScroll"/>
1850 <xsd:enumeration value="wave"/>
1851 <xsd:enumeration value="doubleWave"/>
1852 <xsd:enumeration value="plus"/>
1853 <xsd:enumeration value="flowChartProcess"/>
1854 <xsd:enumeration value="flowChartDecision"/>
1855 <xsd:enumeration value="flowChartInputOutput"/>
1856 <xsd:enumeration value="flowChartPredefinedProcess"/>
1857 <xsd:enumeration value="flowChartInternalStorage"/>
1858 <xsd:enumeration value="flowChartDocument"/>
1859 <xsd:enumeration value="flowChartMultidocument"/>
1860 <xsd:enumeration value="flowChartTerminator"/>
1861 <xsd:enumeration value="flowChartPreparation"/>
1862 <xsd:enumeration value="flowChartManualInput"/>
1863 <xsd:enumeration value="flowChartManualOperation"/>
1864 <xsd:enumeration value="flowChartConnector"/>
1865 <xsd:enumeration value="flowChartPunchedCard"/>
1866 <xsd:enumeration value="flowChartPunchedTape"/>
1867 <xsd:enumeration value="flowChartSummingJunction"/>
1868 <xsd:enumeration value="flowChartOr"/>
1869 <xsd:enumeration value="flowChartCollate"/>
1870 <xsd:enumeration value="flowChartSort"/>
1871 <xsd:enumeration value="flowChartExtract"/>
1872 <xsd:enumeration value="flowChartMerge"/>
1873 <xsd:enumeration value="flowChartOfflineStorage"/>

```



```

1874     <xsd:enumeration value="flowChartOnlineStorage"/>
1875     <xsd:enumeration value="flowChartMagneticTape"/>
1876     <xsd:enumeration value="flowChartMagneticDisk"/>
1877     <xsd:enumeration value="flowChartMagneticDrum"/>
1878     <xsd:enumeration value="flowChartDisplay"/>
1879     <xsd:enumeration value="flowChartDelay"/>
1880     <xsd:enumeration value="flowChartAlternateProcess"/>
1881     <xsd:enumeration value="flowChartOffpageConnector"/>
1882     <xsd:enumeration value="actionButtonBlank"/>
1883     <xsd:enumeration value="actionButtonHome"/>
1884     <xsd:enumeration value="actionButtonHelp"/>
1885     <xsd:enumeration value="actionButtonInformation"/>
1886     <xsd:enumeration value="actionButtonForwardNext"/>
1887     <xsd:enumeration value="actionButtonBackPrevious"/>
1888     <xsd:enumeration value="actionButtonEnd"/>
1889     <xsd:enumeration value="actionButtonBeginning"/>
1890     <xsd:enumeration value="actionButtonReturn"/>
1891     <xsd:enumeration value="actionButtonDocument"/>
1892     <xsd:enumeration value="actionButtonSound"/>
1893     <xsd:enumeration value="actionButtonMovie"/>
1894     <xsd:enumeration value="gear6"/>
1895     <xsd:enumeration value="gear9"/>
1896     <xsd:enumeration value="funnel"/>
1897     <xsd:enumeration value="mathPlus"/>
1898     <xsd:enumeration value="mathMinus"/>
1899     <xsd:enumeration value="mathMultiply"/>
1900     <xsd:enumeration value="mathDivide"/>
1901     <xsd:enumeration value="mathEqual"/>
1902     <xsd:enumeration value="mathNotEqual"/>
1903     <xsd:enumeration value="cornerTabs"/>
1904     <xsd:enumeration value="squareTabs"/>
1905     <xsd:enumeration value="plaqueTabs"/>
1906     <xsd:enumeration value="chartX"/>
1907     <xsd:enumeration value="chartStar"/>
1908     <xsd:enumeration value="chartPlus"/>
1909   </xsd:restriction>
1910 </xsd:simpleType>
1911 <xsd:simpleType name="ST_TextShapeType">
1912   <xsd:restriction base="xsd:token">
1913     <xsd:enumeration value="textNoShape"/>
1914     <xsd:enumeration value="textPlain"/>
1915     <xsd:enumeration value="textStop"/>
1916     <xsd:enumeration value="textTriangle"/>
1917     <xsd:enumeration value="textTriangleInverted"/>
1918     <xsd:enumeration value="textChevron"/>
1919     <xsd:enumeration value="textChevronInverted"/>
1920     <xsd:enumeration value="textRingInside"/>
1921     <xsd:enumeration value="textRingOutside"/>
1922     <xsd:enumeration value="textArchUp"/>
1923     <xsd:enumeration value="textArchDown"/>
1924     <xsd:enumeration value="textCircle"/>
1925     <xsd:enumeration value="textButton"/>
1926     <xsd:enumeration value="textArchUpPour"/>

```

```

1927     <xsd:enumeration value="textArchDownPour"/>
1928     <xsd:enumeration value="textCirclePour"/>
1929     <xsd:enumeration value="textButtonPour"/>
1930     <xsd:enumeration value="textCurveUp"/>
1931     <xsd:enumeration value="textCurveDown"/>
1932     <xsd:enumeration value="textCanUp"/>
1933     <xsd:enumeration value="textCanDown"/>
1934     <xsd:enumeration value="textWave1"/>
1935     <xsd:enumeration value="textWave2"/>
1936     <xsd:enumeration value="textDoubleWave1"/>
1937     <xsd:enumeration value="textWave4"/>
1938     <xsd:enumeration value="textInflate"/>
1939     <xsd:enumeration value="textDeflate"/>
1940     <xsd:enumeration value="textInflateBottom"/>
1941     <xsd:enumeration value="textDeflateBottom"/>
1942     <xsd:enumeration value="textInflateTop"/>
1943     <xsd:enumeration value="textDeflateTop"/>
1944     <xsd:enumeration value="textDeflateInflate"/>
1945     <xsd:enumeration value="textDeflateInflateDeflate"/>
1946     <xsd:enumeration value="textFadeRight"/>
1947     <xsd:enumeration value="textFadeLeft"/>
1948     <xsd:enumeration value="textFadeUp"/>
1949     <xsd:enumeration value="textFadeDown"/>
1950     <xsd:enumeration value="textSlantUp"/>
1951     <xsd:enumeration value="textSlantDown"/>
1952     <xsd:enumeration value="textCascadeUp"/>
1953     <xsd:enumeration value="textCascadeDown"/>
1954 </xsd:restriction>
1955 </xsd:simpleType>
1956 <xsd:simpleType name="ST_GeomGuideName">
1957     <xsd:restriction base="xsd:token"/>
1958 </xsd:simpleType>
1959 <xsd:simpleType name="ST_GeomGuideFormula">
1960     <xsd:restriction base="xsd:string"/>
1961 </xsd:simpleType>
1962 <xsd:complexType name="CT_GeomGuide">
1963     <xsd:attribute name="name" type="ST_GeomGuideName" use="required"/>
1964     <xsd:attribute name="fmla" type="ST_GeomGuideFormula" use="required"/>
1965 </xsd:complexType>
1966 <xsd:complexType name="CT_GeomGuideList">
1967     <xsd:sequence>
1968         <xsd:element name="gd" type="CT_GeomGuide" minOccurs="0" maxOccurs="unbounded"/>
1969     </xsd:sequence>
1970 </xsd:complexType>
1971 <xsd:simpleType name="ST_AdjCoordinate">
1972     <xsd:union memberTypes="ST_Coordinate ST_GeomGuideName"/>
1973 </xsd:simpleType>
1974 <xsd:simpleType name="ST_AdjAngle">
1975     <xsd:union memberTypes="ST_Angle ST_GeomGuideName"/>
1976 </xsd:simpleType>
1977 <xsd:complexType name="CT_AdjPoint2D">
1978     <xsd:attribute name="x" type="ST_AdjCoordinate" use="required"/>
1979     <xsd:attribute name="y" type="ST_AdjCoordinate" use="required"/>

```

```

1980 </xsd:complexType>
1981 <xsd:complexType name="CT_GeomRect">
1982   <xsd:attribute name="l" type="ST AdjCoordinate" use="required"/>
1983   <xsd:attribute name="t" type="ST AdjCoordinate" use="required"/>
1984   <xsd:attribute name="r" type="ST AdjCoordinate" use="required"/>
1985   <xsd:attribute name="b" type="ST AdjCoordinate" use="required"/>
1986 </xsd:complexType>
1987 <xsd:complexType name="CT_XYAdjustHandle">
1988   <xsd:sequence>
1989     <xsd:element name="pos" type="CT AdjPoint2D" minOccurs="1" maxOccurs="1"/>
1990   </xsd:sequence>
1991   <xsd:attribute name="gdRefX" type="ST GeomGuideName" use="optional"/>
1992   <xsd:attribute name="minX" type="ST AdjCoordinate" use="optional"/>
1993   <xsd:attribute name="maxX" type="ST AdjCoordinate" use="optional"/>
1994   <xsd:attribute name="gdRefY" type="ST GeomGuideName" use="optional"/>
1995   <xsd:attribute name="minY" type="ST AdjCoordinate" use="optional"/>
1996   <xsd:attribute name="maxY" type="ST AdjCoordinate" use="optional"/>
1997 </xsd:complexType>
1998 <xsd:complexType name="CT_PolarAdjustHandle">
1999   <xsd:sequence>
2000     <xsd:element name="pos" type="CT AdjPoint2D" minOccurs="1" maxOccurs="1"/>
2001   </xsd:sequence>
2002   <xsd:attribute name="gdRefR" type="ST GeomGuideName" use="optional"/>
2003   <xsd:attribute name="minR" type="ST AdjCoordinate" use="optional"/>
2004   <xsd:attribute name="maxR" type="ST AdjCoordinate" use="optional"/>
2005   <xsd:attribute name="gdRefAng" type="ST GeomGuideName" use="optional"/>
2006   <xsd:attribute name="minAng" type="ST AdjAngle" use="optional"/>
2007   <xsd:attribute name="maxAng" type="ST AdjAngle" use="optional"/>
2008 </xsd:complexType>
2009 <xsd:complexType name="CT_ConnectionSite">
2010   <xsd:sequence>
2011     <xsd:element name="pos" type="CT AdjPoint2D" minOccurs="1" maxOccurs="1"/>
2012   </xsd:sequence>
2013   <xsd:attribute name="ang" type="ST AdjAngle" use="required"/>
2014 </xsd:complexType>
2015 <xsd:complexType name="CT_AdjustHandleList">
2016   <xsd:choice minOccurs="0" maxOccurs="unbounded">
2017     <xsd:element name="ahXY" type="CT XYAdjustHandle" minOccurs="1" maxOccurs="1"/>
2018     <xsd:element name="ahPolar" type="CT PolarAdjustHandle" minOccurs="1" maxOccurs="1"/>
2019   </xsd:choice>
2020 </xsd:complexType>
2021 <xsd:complexType name="CT_ConnectionSiteList">
2022   <xsd:sequence>
2023     <xsd:element name="cxn" type="CT ConnectionSite" minOccurs="0" maxOccurs="unbounded"/>
2024   </xsd:sequence>
2025 </xsd:complexType>
2026 <xsd:complexType name="CT_Connection">
2027   <xsd:attribute name="id" type="ST DrawingElementId" use="required"/>
2028   <xsd:attribute name="idx" type="xsd:unsignedInt" use="required"/>
2029 </xsd:complexType>
2030 <xsd:complexType name="CT_Path2DMoveTo">
2031   <xsd:sequence>
2032     <xsd:element name="pt" type="CT AdjPoint2D" minOccurs="1" maxOccurs="1"/>

```

```

2033     </xsd:sequence>
2034 </xsd:complexType>
2035 <xsd:complexType name="CT_Path2DLineTo">
2036     <xsd:sequence>
2037         <xsd:element name="pt" type="CT_AdjPoint2D" minOccurs="1" maxOccurs="1"/>
2038     </xsd:sequence>
2039 </xsd:complexType>
2040 <xsd:complexType name="CT_Path2DArcTo">
2041     <xsd:attribute name="wR" type="ST_AdjCoordinate" use="required"/>
2042     <xsd:attribute name="hR" type="ST_AdjCoordinate" use="required"/>
2043     <xsd:attribute name="stAng" type="ST_AdjAngle" use="required"/>
2044     <xsd:attribute name="swAng" type="ST_AdjAngle" use="required"/>
2045 </xsd:complexType>
2046 <xsd:complexType name="CT_Path2DQuadBezierTo">
2047     <xsd:sequence>
2048         <xsd:element name="pt" type="CT_AdjPoint2D" minOccurs="2" maxOccurs="2"/>
2049     </xsd:sequence>
2050 </xsd:complexType>
2051 <xsd:complexType name="CT_Path2DCubicBezierTo">
2052     <xsd:sequence>
2053         <xsd:element name="pt" type="CT_AdjPoint2D" minOccurs="3" maxOccurs="3"/>
2054     </xsd:sequence>
2055 </xsd:complexType>
2056 <xsd:complexType name="CT_Path2DClose"/>
2057 <xsd:simpleType name="ST_PathFillMode">
2058     <xsd:restriction base="xsd:token">
2059         <xsd:enumeration value="none"/>
2060         <xsd:enumeration value="norm"/>
2061         <xsd:enumeration value="lighten"/>
2062         <xsd:enumeration value="lightenLess"/>
2063         <xsd:enumeration value="darken"/>
2064         <xsd:enumeration value="darkenLess"/>
2065     </xsd:restriction>
2066 </xsd:simpleType>
2067 <xsd:complexType name="CT_Path2D">
2068     <xsd:choice minOccurs="0" maxOccurs="unbounded">
2069         <xsd:element name="close" type="CT_Path2DClose" minOccurs="1" maxOccurs="1"/>
2070         <xsd:element name="moveTo" type="CT_Path2DMoveTo" minOccurs="1" maxOccurs="1"/>
2071         <xsd:element name="lnTo" type="CT_Path2DLineTo" minOccurs="1" maxOccurs="1"/>
2072         <xsd:element name="arcTo" type="CT_Path2DArcTo" minOccurs="1" maxOccurs="1"/>
2073         <xsd:element name="quadBezTo" type="CT_Path2DQuadBezierTo" minOccurs="1" maxOccurs="1"/>
2074         <xsd:element name="cubicBezTo" type="CT_Path2DCubicBezierTo" minOccurs="1" maxOccurs="1"/>
2075     </xsd:choice>
2076     <xsd:attribute name="w" type="ST_PositiveCoordinate" use="optional" default="0"/>
2077     <xsd:attribute name="h" type="ST_PositiveCoordinate" use="optional" default="0"/>
2078     <xsd:attribute name="fill" type="ST_PathFillMode" use="optional" default="norm"/>
2079     <xsd:attribute name="stroke" type="xsd:boolean" use="optional" default="true"/>
2080     <xsd:attribute name="extrusionOk" type="xsd:boolean" use="optional" default="true"/>
2081 </xsd:complexType>
2082 <xsd:complexType name="CT_Path2DList">
2083     <xsd:sequence>
2084         <xsd:element name="path" type="CT_Path2D" minOccurs="0" maxOccurs="unbounded"/>
2085     </xsd:sequence>

```

```

2086 </xsd:complexType>
2087 <xsd:complexType name="CT_PresetGeometry2D">
2088   <xsd:sequence>
2089     <xsd:element name="avLst" type="CT_GeomGuideList" minOccurs="0" maxOccurs="1"/>
2090   </xsd:sequence>
2091   <xsd:attribute name="prst" type="ST_ShapeType" use="required"/>
2092 </xsd:complexType>
2093 <xsd:complexType name="CT_PresetTextShape">
2094   <xsd:sequence>
2095     <xsd:element name="avLst" type="CT_GeomGuideList" minOccurs="0" maxOccurs="1"/>
2096   </xsd:sequence>
2097   <xsd:attribute name="prst" type="ST_TextShapeType" use="required"/>
2098 </xsd:complexType>
2099 <xsd:complexType name="CT_CustomGeometry2D">
2100   <xsd:sequence>
2101     <xsd:element name="avLst" type="CT_GeomGuideList" minOccurs="0" maxOccurs="1"/>
2102     <xsd:element name="gdLst" type="CT_GeomGuideList" minOccurs="0" maxOccurs="1"/>
2103     <xsd:element name="ahLst" type="CT_AdjustHandleList" minOccurs="0" maxOccurs="1"/>
2104     <xsd:element name="cxnLst" type="CT_ConnectionSiteList" minOccurs="0" maxOccurs="1"/>
2105     <xsd:element name="rect" type="CT_GeomRect" minOccurs="0" maxOccurs="1"/>
2106     <xsd:element name="pathLst" type="CT_Path2DList" minOccurs="1" maxOccurs="1"/>
2107   </xsd:sequence>
2108 </xsd:complexType>
2109 <xsd:group name="EG_Geometry">
2110   <xsd:choice>
2111     <xsd:element name="custGeom" type="CT_CustomGeometry2D" minOccurs="1" maxOccurs="1"/>
2112     <xsd:element name="prstGeom" type="CT_PresetGeometry2D" minOccurs="1" maxOccurs="1"/>
2113   </xsd:choice>
2114 </xsd:group>
2115 <xsd:group name="EG_TextGeometry">
2116   <xsd:choice>
2117     <xsd:element name="custGeom" type="CT_CustomGeometry2D" minOccurs="1" maxOccurs="1"/>
2118     <xsd:element name="prstTxWarp" type="CT_PresetTextShape" minOccurs="1" maxOccurs="1"/>
2119   </xsd:choice>
2120 </xsd:group>
2121 <xsd:simpleType name="ST_LineEndType">
2122   <xsd:restriction base="xsd:token">
2123     <xsd:enumeration value="none"/>
2124     <xsd:enumeration value="triangle"/>
2125     <xsd:enumeration value="stealth"/>
2126     <xsd:enumeration value="diamond"/>
2127     <xsd:enumeration value="oval"/>
2128     <xsd:enumeration value="arrow"/>
2129   </xsd:restriction>
2130 </xsd:simpleType>
2131 <xsd:simpleType name="ST_LineEndWidth">
2132   <xsd:restriction base="xsd:token">
2133     <xsd:enumeration value="sm"/>
2134     <xsd:enumeration value="med"/>
2135     <xsd:enumeration value="lg"/>
2136   </xsd:restriction>
2137 </xsd:simpleType>
2138 <xsd:simpleType name="ST_LineEndLength">

```

```

2139     <xsd:restriction base="xsd:token">
2140       <xsd:enumeration value="sm"/>
2141       <xsd:enumeration value="med"/>
2142       <xsd:enumeration value="lg"/>
2143     </xsd:restriction>
2144   </xsd:simpleType>
2145   <xsd:complexType name="CT_LineEndProperties">
2146     <xsd:attribute name="type" type="ST_LineEndType" use="optional"/>
2147     <xsd:attribute name="w" type="ST_LineEndWidth" use="optional"/>
2148     <xsd:attribute name="len" type="ST_LineEndLength" use="optional"/>
2149   </xsd:complexType>
2150   <xsd:group name="EG_LineFillProperties">
2151     <xsd:choice>
2152       <xsd:element name="noFill" type="CT_NoFillProperties" minOccurs="1" maxOccurs="1"/>
2153       <xsd:element name="solidFill" type="CT_SolidColorFillProperties" minOccurs="1"
2154         maxOccurs="1"/>
2155       <xsd:element name="gradFill" type="CT_GradientFillProperties" minOccurs="1"
2156         maxOccurs="1"/>
2157       <xsd:element name="pattFill" type="CT_PatternFillProperties" minOccurs="1" maxOccurs="1"/>
2158     </xsd:choice>
2159   </xsd:group>
2160   <xsd:complexType name="CT_LineJoinBevel"/>
2161   <xsd:complexType name="CT_LineJoinRound"/>
2162   <xsd:complexType name="CT_LineJoinMiterProperties">
2163     <xsd:attribute name="lim" type="ST_PositivePercentage" use="optional"/>
2164   </xsd:complexType>
2165   <xsd:group name="EG_LineJoinProperties">
2166     <xsd:choice>
2167       <xsd:element name="round" type="CT_LineJoinRound" minOccurs="1" maxOccurs="1"/>
2168       <xsd:element name="bevel" type="CT_LineJoinBevel" minOccurs="1" maxOccurs="1"/>
2169       <xsd:element name="miter" type="CT_LineJoinMiterProperties" minOccurs="1" maxOccurs="1"/>
2170     </xsd:choice>
2171   </xsd:group>
2172   <xsd:simpleType name="ST_PresetLineDashVal">
2173     <xsd:restriction base="xsd:token">
2174       <xsd:enumeration value="solid"/>
2175       <xsd:enumeration value="dot"/>
2176       <xsd:enumeration value="dash"/>
2177       <xsd:enumeration value="lgDash"/>
2178       <xsd:enumeration value="dashDot"/>
2179       <xsd:enumeration value="lgDashDot"/>
2180       <xsd:enumeration value="lgDashDotDot"/>
2181       <xsd:enumeration value="sysDash"/>
2182       <xsd:enumeration value="sysDot"/>
2183       <xsd:enumeration value="sysDashDot"/>
2184       <xsd:enumeration value="sysDashDotDot"/>
2185     </xsd:restriction>
2186   </xsd:simpleType>
2187   <xsd:complexType name="CT_PresetLineDashProperties">
2188     <xsd:attribute name="val" type="ST_PresetLineDashVal" use="optional"/>
2189   </xsd:complexType>
2190   <xsd:complexType name="CT_DashStop">
2191     <xsd:attribute name="d" type="ST_PositivePercentage" use="required"/>

```



```

2192     <xsd:attribute name="sp" type="ST_PositivePercentage" use="required"/>
2193 </xsd:complexType>
2194 <xsd:complexType name="CT_DashStopList">
2195     <xsd:sequence>
2196         <xsd:element name="ds" type="CT_DashStop" minOccurs="0" maxOccurs="unbounded"/>
2197     </xsd:sequence>
2198 </xsd:complexType>
2199 <xsd:group name="EG_LineDashProperties">
2200     <xsd:choice>
2201         <xsd:element name="prstDash" type="CT_PresetLineDashProperties" minOccurs="1"
2202             maxOccurs="1"/>
2203         <xsd:element name="custDash" type="CT_DashStopList" minOccurs="1" maxOccurs="1"/>
2204     </xsd:choice>
2205 </xsd:group>
2206 <xsd:simpleType name="ST_LineCap">
2207     <xsd:restriction base="xsd:token">
2208         <xsd:enumeration value="rnd"/>
2209         <xsd:enumeration value="sq"/>
2210         <xsd:enumeration value="flat"/>
2211     </xsd:restriction>
2212 </xsd:simpleType>
2213 <xsd:simpleType name="ST_LineWidth">
2214     <xsd:restriction base="ST_Coordinate32Unqualified">
2215         <xsd:minInclusive value="0"/>
2216         <xsd:maxInclusive value="20116800"/>
2217     </xsd:restriction>
2218 </xsd:simpleType>
2219 <xsd:simpleType name="ST_PenAlignment">
2220     <xsd:restriction base="xsd:token">
2221         <xsd:enumeration value="ctr"/>
2222         <xsd:enumeration value="in"/>
2223     </xsd:restriction>
2224 </xsd:simpleType>
2225 <xsd:simpleType name="ST_CompoundLine">
2226     <xsd:restriction base="xsd:token">
2227         <xsd:enumeration value="sng"/>
2228         <xsd:enumeration value="dbl"/>
2229         <xsd:enumeration value="thickThin"/>
2230         <xsd:enumeration value="thinThick"/>
2231         <xsd:enumeration value="tri"/>
2232     </xsd:restriction>
2233 </xsd:simpleType>
2234 <xsd:complexType name="CT_LineProperties">
2235     <xsd:sequence>
2236         <xsd:group ref="EG_LineFillProperties" minOccurs="0" maxOccurs="1"/>
2237         <xsd:group ref="EG_LineDashProperties" minOccurs="0" maxOccurs="1"/>
2238         <xsd:group ref="EG_LineJoinProperties" minOccurs="0" maxOccurs="1"/>
2239         <xsd:element name="headEnd" type="CT_LineEndProperties" minOccurs="0" maxOccurs="1"/>
2240         <xsd:element name="tailEnd" type="CT_LineEndProperties" minOccurs="0" maxOccurs="1"/>
2241         <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
2242     </xsd:sequence>
2243     <xsd:attribute name="w" type="ST_LineWidth" use="optional"/>
2244     <xsd:attribute name="cap" type="ST_LineCap" use="optional"/>

```

```

2245     <xsd:attribute name="cmpd" type="ST_CompoundLine" use="optional"/>
2246     <xsd:attribute name="align" type="ST_PenAlignment" use="optional"/>
2247   </xsd:complexType>
2248   <xsd:simpleType name="ST_ShapeID">
2249     <xsd:restriction base="xsd:token"/>
2250   </xsd:simpleType>
2251   <xsd:complexType name="CT_ShapeProperties">
2252     <xsd:sequence>
2253       <xsd:element name="xfrm" type="CT_Transform2D" minOccurs="0" maxOccurs="1"/>
2254       <xsd:group ref="EG_Geometry" minOccurs="0" maxOccurs="1"/>
2255       <xsd:group ref="EG_FillProperties" minOccurs="0" maxOccurs="1"/>
2256       <xsd:element name="ln" type="CT_LineProperties" minOccurs="0" maxOccurs="1"/>
2257       <xsd:group ref="EG_EffectProperties" minOccurs="0" maxOccurs="1"/>
2258       <xsd:element name="scene3d" type="CT_Scene3D" minOccurs="0" maxOccurs="1"/>
2259       <xsd:element name="sp3d" type="CT_Shape3D" minOccurs="0" maxOccurs="1"/>
2260       <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
2261     </xsd:sequence>
2262     <xsd:attribute name="bwMode" type="ST_BlackWhiteMode" use="optional"/>
2263   </xsd:complexType>
2264   <xsd:complexType name="CT_GroupShapeProperties">
2265     <xsd:sequence>
2266       <xsd:element name="xfrm" type="CT_GroupTransform2D" minOccurs="0" maxOccurs="1"/>
2267       <xsd:group ref="EG_FillProperties" minOccurs="0" maxOccurs="1"/>
2268       <xsd:group ref="EG_EffectProperties" minOccurs="0" maxOccurs="1"/>
2269       <xsd:element name="scene3d" type="CT_Scene3D" minOccurs="0" maxOccurs="1"/>
2270       <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
2271     </xsd:sequence>
2272     <xsd:attribute name="bwMode" type="ST_BlackWhiteMode" use="optional"/>
2273   </xsd:complexType>
2274   <xsd:complexType name="CT_StyleMatrixReference">
2275     <xsd:sequence>
2276       <xsd:group ref="EG_ColorChoice" minOccurs="0" maxOccurs="1"/>
2277     </xsd:sequence>
2278     <xsd:attribute name="idx" type="ST_StyleMatrixColumnIndex" use="required"/>
2279   </xsd:complexType>
2280   <xsd:complexType name="CT_FontReference">
2281     <xsd:sequence>
2282       <xsd:group ref="EG_ColorChoice" minOccurs="0" maxOccurs="1"/>
2283     </xsd:sequence>
2284     <xsd:attribute name="idx" type="ST_FontCollectionIndex" use="required"/>
2285   </xsd:complexType>
2286   <xsd:complexType name="CT_StyleShape">
2287     <xsd:sequence>
2288       <xsd:element name="lnRef" type="CT_StyleMatrixReference" minOccurs="1" maxOccurs="1"/>
2289       <xsd:element name="fillRef" type="CT_StyleMatrixReference" minOccurs="1" maxOccurs="1"/>
2290       <xsd:element name="effectRef" type="CT_StyleMatrixReference" minOccurs="1" maxOccurs="1"/>
2291       <xsd:element name="fontRef" type="CT_FontReference" minOccurs="1" maxOccurs="1"/>
2292     </xsd:sequence>
2293   </xsd:complexType>
2294   <xsd:complexType name="CT_DefaultShapeDefinition">
2295     <xsd:sequence>
2296       <xsd:element name="spPr" type="CT_ShapeProperties" minOccurs="1" maxOccurs="1"/>
2297       <xsd:element name="bodyPr" type="CT_TextBodyProperties" minOccurs="1" maxOccurs="1"/>

```



```

2298     <xsd:element name="lstStyle" type="CT_TextListStyle" minOccurs="1" maxOccurs="1"/>
2299     <xsd:element name="style" type="CT_ShapeStyle" minOccurs="0" maxOccurs="1"/>
2300     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
2301   </xsd:sequence>
2302 </xsd:complexType>
2303 <xsd:complexType name="CT_ObjectStyleDefaults">
2304   <xsd:sequence>
2305     <xsd:element name="spDef" type="CT_DefaultShapeDefinition" minOccurs="0" maxOccurs="1"/>
2306     <xsd:element name="lnDef" type="CT_DefaultShapeDefinition" minOccurs="0" maxOccurs="1"/>
2307     <xsd:element name="txDef" type="CT_DefaultShapeDefinition" minOccurs="0" maxOccurs="1"/>
2308     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
2309   </xsd:sequence>
2310 </xsd:complexType>
2311 <xsd:complexType name="CT_EmptyElement"/>
2312 <xsd:complexType name="CT_ColorMapping">
2313   <xsd:sequence>
2314     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
2315   </xsd:sequence>
2316   <xsd:attribute name="bg1" type="ST_ColorSchemeIndex" use="required"/>
2317   <xsd:attribute name="tx1" type="ST_ColorSchemeIndex" use="required"/>
2318   <xsd:attribute name="bg2" type="ST_ColorSchemeIndex" use="required"/>
2319   <xsd:attribute name="tx2" type="ST_ColorSchemeIndex" use="required"/>
2320   <xsd:attribute name="accent1" type="ST_ColorSchemeIndex" use="required"/>
2321   <xsd:attribute name="accent2" type="ST_ColorSchemeIndex" use="required"/>
2322   <xsd:attribute name="accent3" type="ST_ColorSchemeIndex" use="required"/>
2323   <xsd:attribute name="accent4" type="ST_ColorSchemeIndex" use="required"/>
2324   <xsd:attribute name="accent5" type="ST_ColorSchemeIndex" use="required"/>
2325   <xsd:attribute name="accent6" type="ST_ColorSchemeIndex" use="required"/>
2326   <xsd:attribute name="hlink" type="ST_ColorSchemeIndex" use="required"/>
2327   <xsd:attribute name="folHlink" type="ST_ColorSchemeIndex" use="required"/>
2328 </xsd:complexType>
2329 <xsd:complexType name="CT_ColorMappingOverride">
2330   <xsd:sequence>
2331     <xsd:choice minOccurs="1" maxOccurs="1">
2332       <xsd:element name="masterClrMapping" type="CT_EmptyElement"/>
2333       <xsd:element name="overrideClrMapping" type="CT_ColorMapping"/>
2334     </xsd:choice>
2335   </xsd:sequence>
2336 </xsd:complexType>
2337 <xsd:complexType name="CT_ColorSchemeAndMapping">
2338   <xsd:sequence>
2339     <xsd:element name="clrScheme" type="CT_ColorScheme" minOccurs="1" maxOccurs="1"/>
2340     <xsd:element name="clrMap" type="CT_ColorMapping" minOccurs="0" maxOccurs="1"/>
2341   </xsd:sequence>
2342 </xsd:complexType>
2343 <xsd:complexType name="CT_ColorSchemeList">
2344   <xsd:sequence>
2345     <xsd:element name="extraClrScheme" type="CT_ColorSchemeAndMapping" minOccurs="0"
2346       maxOccurs="unbounded"/>
2347   </xsd:sequence>
2348 </xsd:complexType>
2349 <xsd:complexType name="CT_OfficeStyleSheet">
2350   <xsd:sequence>

```

```

2351     <xsd:element name="themeElements" type="CT_BaseStyles" minOccurs="1" maxOccurs="1"/>
2352     <xsd:element name="objectDefaults" type="CT_ObjectStyleDefaults" minOccurs="0"
2353         maxOccurs="1"/>
2354     <xsd:element name="extraClrSchemeLst" type="CT_ColorSchemeList" minOccurs="0"
2355         maxOccurs="1"/>
2356     <xsd:element name="custClrLst" type="CT_CustomColorList" minOccurs="0" maxOccurs="1"/>
2357     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
2358 </xsd:sequence>
2359 <xsd:attribute name="name" type="xsd:string" use="optional" default=""/>
2360 </xsd:complexType>
2361 <xsd:complexType name="CT_BaseStylesOverride">
2362     <xsd:sequence>
2363         <xsd:element name="clrScheme" type="CT_ColorScheme" minOccurs="0" maxOccurs="1"/>
2364         <xsd:element name="fontScheme" type="CT_FontScheme" minOccurs="0" maxOccurs="1"/>
2365         <xsd:element name="fmtScheme" type="CT_StyleMatrix" minOccurs="0" maxOccurs="1"/>
2366     </xsd:sequence>
2367 </xsd:complexType>
2368 <xsd:complexType name="CT_ClipboardStyleSheet">
2369     <xsd:sequence>
2370         <xsd:element name="themeElements" type="CT_BaseStyles" minOccurs="1" maxOccurs="1"/>
2371         <xsd:element name="clrMap" type="CT_ColorMapping" minOccurs="1" maxOccurs="1"/>
2372     </xsd:sequence>
2373 </xsd:complexType>
2374 <xsd:element name="theme" type="CT_OfficeStyleSheet"/>
2375 <xsd:element name="themeOverride" type="CT_BaseStylesOverride"/>
2376 <xsd:element name="themeManager" type="CT_EmptyElement"/>
2377 <xsd:complexType name="CT_TableCellProperties">
2378     <xsd:sequence>
2379         <xsd:element name="lnL" type="CT_LineProperties" minOccurs="0" maxOccurs="1"/>
2380         <xsd:element name="lnR" type="CT_LineProperties" minOccurs="0" maxOccurs="1"/>
2381         <xsd:element name="lnT" type="CT_LineProperties" minOccurs="0" maxOccurs="1"/>
2382         <xsd:element name="lnB" type="CT_LineProperties" minOccurs="0" maxOccurs="1"/>
2383         <xsd:element name="lnTlToBr" type="CT_LineProperties" minOccurs="0" maxOccurs="1"/>
2384         <xsd:element name="lnBlToTr" type="CT_LineProperties" minOccurs="0" maxOccurs="1"/>
2385         <xsd:element name="cell3D" type="CT_Cell3D" minOccurs="0" maxOccurs="1"/>
2386         <xsd:group ref="EC_FillProperties" minOccurs="0" maxOccurs="1"/>
2387         <xsd:element name="headers" type="CT_Headers" minOccurs="0"/>
2388         <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
2389     </xsd:sequence>
2390     <xsd:attribute name="marL" type="ST_Coordinate32" use="optional" default="91440"/>
2391     <xsd:attribute name="marR" type="ST_Coordinate32" use="optional" default="91440"/>
2392     <xsd:attribute name="marT" type="ST_Coordinate32" use="optional" default="45720"/>
2393     <xsd:attribute name="marB" type="ST_Coordinate32" use="optional" default="45720"/>
2394     <xsd:attribute name="vert" type="ST_TextVerticalType" use="optional" default="horz"/>
2395     <xsd:attribute name="anchor" type="ST_TextAnchoringType" use="optional" default="t"/>
2396     <xsd:attribute name="anchorCtr" type="xsd:boolean" use="optional" default="false"/>
2397     <xsd:attribute name="horzOverflow" type="ST_TextHorzOverflowType" use="optional"
2398         default="clip"/>
2399 </xsd:complexType>
2400 <xsd:complexType name="CT_Headers">
2401     <xsd:sequence minOccurs="0" maxOccurs="unbounded">
2402         <xsd:element name="header" type="xsd:string"/>
2403     </xsd:sequence>

```

```

2404 </xsd:complexType>
2405 <xsd:complexType name="CT_TableCol">
2406   <xsd:sequence>
2407     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
2408   </xsd:sequence>
2409   <xsd:attribute name="w" type="ST_Coordinate" use="required"/>
2410 </xsd:complexType>
2411 <xsd:complexType name="CT_TableGrid">
2412   <xsd:sequence>
2413     <xsd:element name="gridCol" type="CT_TableCol" minOccurs="0" maxOccurs="unbounded"/>
2414   </xsd:sequence>
2415 </xsd:complexType>
2416 <xsd:complexType name="CT_TableCell">
2417   <xsd:sequence>
2418     <xsd:element name="txBody" type="CT_TextBody" minOccurs="0" maxOccurs="1"/>
2419     <xsd:element name="tcPr" type="CT_TableCellProperties" minOccurs="0" maxOccurs="1"/>
2420     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
2421   </xsd:sequence>
2422   <xsd:attribute name="rowSpan" type="xsd:int" use="optional" default="1"/>
2423   <xsd:attribute name="gridSpan" type="xsd:int" use="optional" default="1"/>
2424   <xsd:attribute name="hMerge" type="xsd:boolean" use="optional" default="false"/>
2425   <xsd:attribute name="vMerge" type="xsd:boolean" use="optional" default="false"/>
2426   <xsd:attribute name="id" type="xsd:string" use="optional"/>
2427 </xsd:complexType>
2428 <xsd:complexType name="CT_TableRow">
2429   <xsd:sequence>
2430     <xsd:element name="tc" type="CT_TableCell" minOccurs="0" maxOccurs="unbounded"/>
2431     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
2432   </xsd:sequence>
2433   <xsd:attribute name="h" type="ST_Coordinate" use="required"/>
2434 </xsd:complexType>
2435 <xsd:complexType name="CT_TableProperties">
2436   <xsd:sequence>
2437     <xsd:group ref="EG_FillProperties" minOccurs="0" maxOccurs="1"/>
2438     <xsd:group ref="EG_EffectProperties" minOccurs="0" maxOccurs="1"/>
2439     <xsd:choice minOccurs="0" maxOccurs="1">
2440       <xsd:element name="tableStyle" type="CT_TableStyle"/>
2441       <xsd:element name="tableStyleId" type="s:ST_Guid"/>
2442     </xsd:choice>
2443     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
2444   </xsd:sequence>
2445   <xsd:attribute name="rtl" type="xsd:boolean" use="optional" default="false"/>
2446   <xsd:attribute name="firstRow" type="xsd:boolean" use="optional" default="false"/>
2447   <xsd:attribute name="firstCol" type="xsd:boolean" use="optional" default="false"/>
2448   <xsd:attribute name="lastRow" type="xsd:boolean" use="optional" default="false"/>
2449   <xsd:attribute name="lastCol" type="xsd:boolean" use="optional" default="false"/>
2450   <xsd:attribute name="bandRow" type="xsd:boolean" use="optional" default="false"/>
2451   <xsd:attribute name="bandCol" type="xsd:boolean" use="optional" default="false"/>
2452 </xsd:complexType>
2453 <xsd:complexType name="CT_Table">
2454   <xsd:sequence>
2455     <xsd:element name="tblPr" type="CT_TableProperties" minOccurs="0" maxOccurs="1"/>
2456     <xsd:element name="tblGrid" type="CT_TableGrid" minOccurs="1" maxOccurs="1"/>

```

```

2457     <xsd:element name="tr" type="CT_TableRow" minOccurs="0" maxOccurs="unbounded"/>
2458   </xsd:sequence>
2459 </xsd:complexType>
2460 <xsd:element name="tbl" type="CT_Table"/>
2461 <xsd:complexType name="CT_Cell3D">
2462   <xsd:sequence>
2463     <xsd:element name="bevel" type="CT_Bevel" minOccurs="1" maxOccurs="1"/>
2464     <xsd:element name="lightRig" type="CT_LightRig" minOccurs="0" maxOccurs="1"/>
2465     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
2466   </xsd:sequence>
2467   <xsd:attribute name="prstMaterial" type="ST_PresetMaterialType" use="optional"
2468     default="plastic"/>
2469 </xsd:complexType>
2470 <xsd:group name="EG_ThemeableFillStyle">
2471   <xsd:choice>
2472     <xsd:element name="fill" type="CT_FillProperties" minOccurs="1" maxOccurs="1"/>
2473     <xsd:element name="fillRef" type="CT_StyleMatrixReference" minOccurs="1" maxOccurs="1"/>
2474   </xsd:choice>
2475 </xsd:group>
2476 <xsd:complexType name="CT_ThemeableLineStyle">
2477   <xsd:choice>
2478     <xsd:element name="ln" type="CT_LineProperties" minOccurs="1" maxOccurs="1"/>
2479     <xsd:element name="lnRef" type="CT_StyleMatrixReference" minOccurs="1" maxOccurs="1"/>
2480   </xsd:choice>
2481 </xsd:complexType>
2482 <xsd:group name="EG_ThemeableEffectStyle">
2483   <xsd:choice>
2484     <xsd:element name="effect" type="CT_EffectProperties" minOccurs="1" maxOccurs="1"/>
2485     <xsd:element name="effectRef" type="CT_StyleMatrixReference" minOccurs="1" maxOccurs="1"/>
2486   </xsd:choice>
2487 </xsd:group>
2488 <xsd:group name="EG_ThemeableFontStyles">
2489   <xsd:choice>
2490     <xsd:element name="font" type="CT_FontCollection" minOccurs="1" maxOccurs="1"/>
2491     <xsd:element name="fontRef" type="CT_FontReference" minOccurs="1" maxOccurs="1"/>
2492   </xsd:choice>
2493 </xsd:group>
2494 <xsd:simpleType name="ST_OnOffStyleType">
2495   <xsd:restriction base="xsd:token">
2496     <xsd:enumeration value="on"/>
2497     <xsd:enumeration value="off"/>
2498     <xsd:enumeration value="def"/>
2499   </xsd:restriction>
2500 </xsd:simpleType>
2501 <xsd:complexType name="CT_TableStyleTextStyle">
2502   <xsd:sequence>
2503     <xsd:group ref="EG_ThemeableFontStyles" minOccurs="0" maxOccurs="1"/>
2504     <xsd:group ref="EG_ColorChoice" minOccurs="0" maxOccurs="1"/>
2505     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
2506   </xsd:sequence>
2507   <xsd:attribute name="b" type="ST_OnOffStyleType" use="optional" default="def"/>
2508   <xsd:attribute name="i" type="ST_OnOffStyleType" use="optional" default="def"/>
2509 </xsd:complexType>

```

```

2510 <xsd:complexType name="CT_TableCellBorderStyle">
2511   <xsd:sequence>
2512     <xsd:element name="left" type="CT_ThemeableLineStyle" minOccurs="0" maxOccurs="1"/>
2513     <xsd:element name="right" type="CT_ThemeableLineStyle" minOccurs="0" maxOccurs="1"/>
2514     <xsd:element name="top" type="CT_ThemeableLineStyle" minOccurs="0" maxOccurs="1"/>
2515     <xsd:element name="bottom" type="CT_ThemeableLineStyle" minOccurs="0" maxOccurs="1"/>
2516     <xsd:element name="insideH" type="CT_ThemeableLineStyle" minOccurs="0" maxOccurs="1"/>
2517     <xsd:element name="insideV" type="CT_ThemeableLineStyle" minOccurs="0" maxOccurs="1"/>
2518     <xsd:element name="tl2br" type="CT_ThemeableLineStyle" minOccurs="0" maxOccurs="1"/>
2519     <xsd:element name="tr2bl" type="CT_ThemeableLineStyle" minOccurs="0" maxOccurs="1"/>
2520     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
2521   </xsd:sequence>
2522 </xsd:complexType>
2523 <xsd:complexType name="CT_TableBackgroundStyle">
2524   <xsd:sequence>
2525     <xsd:group ref="EG_ThemeableFillStyle" minOccurs="0" maxOccurs="1"/>
2526     <xsd:group ref="EG_ThemeableEffectStyle" minOccurs="0" maxOccurs="1"/>
2527   </xsd:sequence>
2528 </xsd:complexType>
2529 <xsd:complexType name="CT_TableStyleCellStyle">
2530   <xsd:sequence>
2531     <xsd:element name="tcBdr" type="CT_TableCellBorderStyle" minOccurs="0" maxOccurs="1"/>
2532     <xsd:group ref="EG_ThemeableFillStyle" minOccurs="0" maxOccurs="1"/>
2533     <xsd:element name="cellLst" type="CT_CellLst" minOccurs="0" maxOccurs="1"/>
2534   </xsd:sequence>
2535 </xsd:complexType>
2536 <xsd:complexType name="CT_TablePartStyle">
2537   <xsd:sequence>
2538     <xsd:element name="tcTxStyle" type="CT_TableStyleTextStyle" minOccurs="0" maxOccurs="1"/>
2539     <xsd:element name="tcStyle" type="CT_TableStyleCellStyle" minOccurs="0" maxOccurs="1"/>
2540   </xsd:sequence>
2541 </xsd:complexType>
2542 <xsd:complexType name="CT_TableStyle">
2543   <xsd:sequence>
2544     <xsd:element name="tblBg" type="CT_TableBackgroundStyle" minOccurs="0" maxOccurs="1"/>
2545     <xsd:element name="wholeTbl" type="CT_TablePartStyle" minOccurs="0" maxOccurs="1"/>
2546     <xsd:element name="band1H" type="CT_TablePartStyle" minOccurs="0" maxOccurs="1"/>
2547     <xsd:element name="band2H" type="CT_TablePartStyle" minOccurs="0" maxOccurs="1"/>
2548     <xsd:element name="band1V" type="CT_TablePartStyle" minOccurs="0" maxOccurs="1"/>
2549     <xsd:element name="band2V" type="CT_TablePartStyle" minOccurs="0" maxOccurs="1"/>
2550     <xsd:element name="lastCol" type="CT_TablePartStyle" minOccurs="0" maxOccurs="1"/>
2551     <xsd:element name="firstCol" type="CT_TablePartStyle" minOccurs="0" maxOccurs="1"/>
2552     <xsd:element name="lastRow" type="CT_TablePartStyle" minOccurs="0" maxOccurs="1"/>
2553     <xsd:element name="seCell" type="CT_TablePartStyle" minOccurs="0" maxOccurs="1"/>
2554     <xsd:element name="swCell" type="CT_TablePartStyle" minOccurs="0" maxOccurs="1"/>
2555     <xsd:element name="firstRow" type="CT_TablePartStyle" minOccurs="0" maxOccurs="1"/>
2556     <xsd:element name="neCell" type="CT_TablePartStyle" minOccurs="0" maxOccurs="1"/>
2557     <xsd:element name="nwCell" type="CT_TablePartStyle" minOccurs="0" maxOccurs="1"/>
2558     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
2559   </xsd:sequence>
2560   <xsd:attribute name="styleId" type="s:ST_Guid" use="required"/>
2561   <xsd:attribute name="styleName" type="xsd:string" use="required"/>
2562 </xsd:complexType>

```

```

2563 <xsd:complexType name="CT_TableStyleList">
2564   <xsd:sequence>
2565     <xsd:element name="tblStyle" type="CT_TableStyle" minOccurs="0" maxOccurs="unbounded"/>
2566   </xsd:sequence>
2567   <xsd:attribute name="def" type="s:ST_Guid" use="required"/>
2568 </xsd:complexType>
2569 <xsd:element name="tblStyleList" type="CT_TableStyleList"/>
2570 <xsd:complexType name="CT_TextParagraph">
2571   <xsd:sequence>
2572     <xsd:element name="pPr" type="CT_TextParagraphProperties" minOccurs="0" maxOccurs="1"/>
2573     <xsd:group ref="EG_TextRun" minOccurs="0" maxOccurs="unbounded"/>
2574     <xsd:element name="endParaRPr" type="CT_TextCharacterProperties" minOccurs="0"
2575       maxOccurs="1"/>
2576   </xsd:sequence>
2577 </xsd:complexType>
2578 <xsd:simpleType name="ST_TextAnchoringType">
2579   <xsd:restriction base="xsd:token">
2580     <xsd:enumeration value="t"/>
2581     <xsd:enumeration value="ctr"/>
2582     <xsd:enumeration value="b"/>
2583     <xsd:enumeration value="just"/>
2584     <xsd:enumeration value="dist"/>
2585   </xsd:restriction>
2586 </xsd:simpleType>
2587 <xsd:simpleType name="ST_TextVertOverflowType">
2588   <xsd:restriction base="xsd:token">
2589     <xsd:enumeration value="overflow"/>
2590     <xsd:enumeration value="ellipsis"/>
2591     <xsd:enumeration value="clip"/>
2592   </xsd:restriction>
2593 </xsd:simpleType>
2594 <xsd:simpleType name="ST_TextHorzOverflowType">
2595   <xsd:restriction base="xsd:token">
2596     <xsd:enumeration value="overflow"/>
2597     <xsd:enumeration value="clip"/>
2598   </xsd:restriction>
2599 </xsd:simpleType>
2600 <xsd:simpleType name="ST_TextVerticalType">
2601   <xsd:restriction base="xsd:token">
2602     <xsd:enumeration value="horz"/>
2603     <xsd:enumeration value="vert"/>
2604     <xsd:enumeration value="vert270"/>
2605     <xsd:enumeration value="wordArtVert"/>
2606     <xsd:enumeration value="eaVert"/>
2607     <xsd:enumeration value="mongolianVert"/>
2608     <xsd:enumeration value="wordArtVertRtl"/>
2609   </xsd:restriction>
2610 </xsd:simpleType>
2611 <xsd:simpleType name="ST_TextWrappingType">
2612   <xsd:restriction base="xsd:token">
2613     <xsd:enumeration value="none"/>
2614     <xsd:enumeration value="square"/>
2615   </xsd:restriction>

```



```

2616 </xsd:simpleType>
2617 <xsd:simpleType name="ST_TextColumnCount">
2618   <xsd:restriction base="xsd:int">
2619     <xsd:minInclusive value="1"/>
2620     <xsd:maxInclusive value="16"/>
2621   </xsd:restriction>
2622 </xsd:simpleType>
2623 <xsd:complexType name="CT_TextListStyle">
2624   <xsd:sequence>
2625     <xsd:element name="defPPr" type="CT_TextParagraphProperties" minOccurs="0" maxOccurs="1"/>
2626     <xsd:element name="lv11pPr" type="CT_TextParagraphProperties" minOccurs="0"
2627       maxOccurs="1"/>
2628     <xsd:element name="lv12pPr" type="CT_TextParagraphProperties" minOccurs="0"
2629       maxOccurs="1"/>
2630     <xsd:element name="lv13pPr" type="CT_TextParagraphProperties" minOccurs="0"
2631       maxOccurs="1"/>
2632     <xsd:element name="lv14pPr" type="CT_TextParagraphProperties" minOccurs="0"
2633       maxOccurs="1"/>
2634     <xsd:element name="lv15pPr" type="CT_TextParagraphProperties" minOccurs="0"
2635       maxOccurs="1"/>
2636     <xsd:element name="lv16pPr" type="CT_TextParagraphProperties" minOccurs="0"
2637       maxOccurs="1"/>
2638     <xsd:element name="lv17pPr" type="CT_TextParagraphProperties" minOccurs="0"
2639       maxOccurs="1"/>
2640     <xsd:element name="lv18pPr" type="CT_TextParagraphProperties" minOccurs="0"
2641       maxOccurs="1"/>
2642     <xsd:element name="lv19pPr" type="CT_TextParagraphProperties" minOccurs="0"
2643       maxOccurs="1"/>
2644     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
2645   </xsd:sequence>
2646 </xsd:complexType>
2647 <xsd:simpleType name="ST_TextFontScalePercentOrPercentString">
2648   <xsd:union memberTypes="ST_TextFontScalePercent s:ST_Percentage"/>
2649 </xsd:simpleType>
2650 <xsd:simpleType name="ST_TextFontScalePercent">
2651   <xsd:restriction base="ST_PercentageDecimal">
2652     <xsd:minInclusive value="1000"/>
2653     <xsd:maxInclusive value="100000"/>
2654   </xsd:restriction>
2655 </xsd:simpleType>
2656 <xsd:complexType name="CT_TextNormalAutofit">
2657   <xsd:attribute name="fontScale" type="ST_TextFontScalePercentOrPercentString" use="optional"
2658     default="100%"/>
2659   <xsd:attribute name="lnSpcReduction" type="ST_TextSpacingPercentOrPercentString"
2660     use="optional" default="0%"/>
2661 </xsd:complexType>
2662 <xsd:complexType name="CT_TextShapeAutofit"/>
2663 <xsd:complexType name="CT_TextNoAutofit"/>
2664 <xsd:group name="EG_TextAutofit">
2665   <xsd:choice>
2666     <xsd:element name="noAutofit" type="CT_TextNoAutofit"/>
2667     <xsd:element name="normAutofit" type="CT_TextNormalAutofit"/>
2668     <xsd:element name="spAutoFit" type="CT_TextShapeAutofit"/>

```

```

2669     </xsd:choice>
2670 </xsd:group>
2671 <xsd:complexType name="CT_TextBodyProperties">
2672     <xsd:sequence>
2673         <xsd:element name="prstTxWarp" type="CT_PresetTextShape" minOccurs="0" maxOccurs="1"/>
2674         <xsd:group ref="EG_TextAutofit" minOccurs="0" maxOccurs="1"/>
2675         <xsd:element name="scene3d" type="CT_Scene3D" minOccurs="0" maxOccurs="1"/>
2676         <xsd:group ref="EG_Text3D" minOccurs="0" maxOccurs="1"/>
2677         <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
2678     </xsd:sequence>
2679     <xsd:attribute name="rot" type="ST_Angle" use="optional"/>
2680     <xsd:attribute name="spcFirstLastPara" type="xsd:boolean" use="optional"/>
2681     <xsd:attribute name="vertOverflow" type="ST_TextVertOverflowType" use="optional"/>
2682     <xsd:attribute name="horzOverflow" type="ST_TextHorzOverflowType" use="optional"/>
2683     <xsd:attribute name="vert" type="ST_TextVerticalType" use="optional"/>
2684     <xsd:attribute name="wrap" type="ST_TextWrappingType" use="optional"/>
2685     <xsd:attribute name="lIns" type="ST_Coordinate32" use="optional"/>
2686     <xsd:attribute name="tIns" type="ST_Coordinate32" use="optional"/>
2687     <xsd:attribute name="rIns" type="ST_Coordinate32" use="optional"/>
2688     <xsd:attribute name="bIns" type="ST_Coordinate32" use="optional"/>
2689     <xsd:attribute name="numCol" type="ST_TextColumnCount" use="optional"/>
2690     <xsd:attribute name="spcCol" type="ST_PositiveCoordinate32" use="optional"/>
2691     <xsd:attribute name="rtlCol" type="xsd:boolean" use="optional"/>
2692     <xsd:attribute name="fromWordArt" type="xsd:boolean" use="optional"/>
2693     <xsd:attribute name="anchor" type="ST_TextAnchoringType" use="optional"/>
2694     <xsd:attribute name="anchorCtr" type="xsd:boolean" use="optional"/>
2695     <xsd:attribute name="forceAA" type="xsd:boolean" use="optional"/>
2696     <xsd:attribute name="upright" type="xsd:boolean" use="optional" default="false"/>
2697     <xsd:attribute name="compatLnSpc" type="xsd:boolean" use="optional"/>
2698 </xsd:complexType>
2699 <xsd:complexType name="CT_TextBody">
2700     <xsd:sequence>
2701         <xsd:element name="bodyPr" type="CT_TextBodyProperties" minOccurs="1" maxOccurs="1"/>
2702         <xsd:element name="lstStyle" type="CT_TextListStyle" minOccurs="0" maxOccurs="1"/>
2703         <xsd:element name="p" type="CT_TextParagraph" minOccurs="1" maxOccurs="unbounded"/>
2704     </xsd:sequence>
2705 </xsd:complexType>
2706 <xsd:simpleType name="ST_TextBulletStartAtNum">
2707     <xsd:restriction base="xsd:int">
2708         <xsd:minInclusive value="1"/>
2709         <xsd:maxInclusive value="32767"/>
2710     </xsd:restriction>
2711 </xsd:simpleType>
2712 <xsd:simpleType name="ST_TextAutonumberScheme">
2713     <xsd:restriction base="xsd:token">
2714         <xsd:enumeration value="alphaLcParenBoth"/>
2715         <xsd:enumeration value="alphaUcParenBoth"/>
2716         <xsd:enumeration value="alphaLcParenR"/>
2717         <xsd:enumeration value="alphaUcParenR"/>
2718         <xsd:enumeration value="alphaLcPeriod"/>
2719         <xsd:enumeration value="alphaUcPeriod"/>
2720         <xsd:enumeration value="arabicParenBoth"/>
2721         <xsd:enumeration value="arabicParenR"/>

```



```

2722     <xsd:enumeration value="arabicPeriod"/>
2723     <xsd:enumeration value="arabicPlain"/>
2724     <xsd:enumeration value="romanLcParenBoth"/>
2725     <xsd:enumeration value="romanUcParenBoth"/>
2726     <xsd:enumeration value="romanLcParenR"/>
2727     <xsd:enumeration value="romanUcParenR"/>
2728     <xsd:enumeration value="romanLcPeriod"/>
2729     <xsd:enumeration value="romanUcPeriod"/>
2730     <xsd:enumeration value="circleNumDbPlain"/>
2731     <xsd:enumeration value="circleNumWdBlackPlain"/>
2732     <xsd:enumeration value="circleNumWdWhitePlain"/>
2733     <xsd:enumeration value="arabicDbPeriod"/>
2734     <xsd:enumeration value="arabicDbPlain"/>
2735     <xsd:enumeration value="ea1ChsPeriod"/>
2736     <xsd:enumeration value="ea1ChsPlain"/>
2737     <xsd:enumeration value="ea1ChtPeriod"/>
2738     <xsd:enumeration value="ea1ChtPlain"/>
2739     <xsd:enumeration value="ea1JpnChsDbPeriod"/>
2740     <xsd:enumeration value="ea1JpnKorPlain"/>
2741     <xsd:enumeration value="ea1JpnKorPeriod"/>
2742     <xsd:enumeration value="arabic1Minus"/>
2743     <xsd:enumeration value="arabic2Minus"/>
2744     <xsd:enumeration value="hebrew2Minus"/>
2745     <xsd:enumeration value="thaiAlphaPeriod"/>
2746     <xsd:enumeration value="thaiAlphaParenR"/>
2747     <xsd:enumeration value="thaiAlphaParenBoth"/>
2748     <xsd:enumeration value="thaiNumPeriod"/>
2749     <xsd:enumeration value="thaiNumParenR"/>
2750     <xsd:enumeration value="thaiNumParenBoth"/>
2751     <xsd:enumeration value="hindiAlphaPeriod"/>
2752     <xsd:enumeration value="hindiNumPeriod"/>
2753     <xsd:enumeration value="hindiNumParenR"/>
2754     <xsd:enumeration value="hindiAlpha1Period"/>
2755 </xsd:restriction>
2756 </xsd:simpleType>
2757 <xsd:complexType name="CT_TextBulletColorFollowText"/>
2758 <xsd:group name="EG_TextBulletColor">
2759     <xsd:choice>
2760         <xsd:element name="buClrTx" type="CT_TextBulletColorFollowText" minOccurs="1"
2761             maxOccurs="1"/>
2762         <xsd:element name="buClr" type="CT_Color" minOccurs="1" maxOccurs="1"/>
2763     </xsd:choice>
2764 </xsd:group>
2765 <xsd:simpleType name="ST_TextBulletSize">
2766     <xsd:union memberTypes="ST_TextBulletSizePercent ST_TextBulletSizeDecimal"/>
2767 </xsd:simpleType>
2768 <xsd:simpleType name="ST_TextBulletSizePercent">
2769     <xsd:restriction base="xsd:string">
2770         <xsd:pattern value="0*(([2][5-9])|([3-9][0-9])|([1-3][0-9][0-9])|400)%"/>
2771     </xsd:restriction>
2772 </xsd:simpleType>
2773 <xsd:simpleType name="ST_TextBulletSizeDecimal">
2774     <xsd:restriction base="ST_PercentageDecimal">

```

```

2775     <xsd:minInclusive value="25000"/>
2776     <xsd:maxInclusive value="400000"/>
2777   </xsd:restriction>
2778 </xsd:simpleType>
2779 <xsd:complexType name="CT_TextBulletSizeFollowText"/>
2780 <xsd:complexType name="CT_TextBulletSizePercent">
2781   <xsd:attribute name="val" type="ST_TextBulletSizePercent" use="required"/>
2782 </xsd:complexType>
2783 <xsd:complexType name="CT_TextBulletSizePoint">
2784   <xsd:attribute name="val" type="ST_TextFontSize" use="required"/>
2785 </xsd:complexType>
2786 <xsd:group name="EG_TextBulletSize">
2787   <xsd:choice>
2788     <xsd:element name="buSzTx" type="CT_TextBulletSizeFollowText"/>
2789     <xsd:element name="buSzPct" type="CT_TextBulletSizePercent"/>
2790     <xsd:element name="buSzPts" type="CT_TextBulletSizePoint"/>
2791   </xsd:choice>
2792 </xsd:group>
2793 <xsd:complexType name="CT_TextBulletTypefaceFollowText"/>
2794 <xsd:group name="EG_TextBulletTypeface">
2795   <xsd:choice>
2796     <xsd:element name="buFontTx" type="CT_TextBulletTypefaceFollowText"/>
2797     <xsd:element name="buFont" type="CT_TextFont"/>
2798   </xsd:choice>
2799 </xsd:group>
2800 <xsd:complexType name="CT_TextAutonumberBullet">
2801   <xsd:attribute name="type" type="ST_TextAutonumberScheme" use="required"/>
2802   <xsd:attribute name="startAt" type="ST_TextBulletStartAtNum" use="optional" default="1"/>
2803 </xsd:complexType>
2804 <xsd:complexType name="CT_TextCharBullet">
2805   <xsd:attribute name="char" type="xsd:string" use="required"/>
2806 </xsd:complexType>
2807 <xsd:complexType name="CT_TextBlipBullet">
2808   <xsd:sequence>
2809     <xsd:element name="blip" type="CT_Blip" minOccurs="1" maxOccurs="1"/>
2810   </xsd:sequence>
2811 </xsd:complexType>
2812 <xsd:complexType name="CT_TextNoBullet"/>
2813 <xsd:group name="EG_TextBullet">
2814   <xsd:choice>
2815     <xsd:element name="buNone" type="CT_TextNoBullet"/>
2816     <xsd:element name="buAutoNum" type="CT_TextAutonumberBullet"/>
2817     <xsd:element name="buChar" type="CT_TextCharBullet"/>
2818     <xsd:element name="buBlip" type="CT_TextBlipBullet"/>
2819   </xsd:choice>
2820 </xsd:group>
2821 <xsd:simpleType name="ST_TextPoint">
2822   <xsd:union memberTypes="ST_TextPointUnqualified s:ST_UniversalMeasure"/>
2823 </xsd:simpleType>
2824 <xsd:simpleType name="ST_TextPointUnqualified">
2825   <xsd:restriction base="xsd:int">
2826     <xsd:minInclusive value="-400000"/>
2827     <xsd:maxInclusive value="400000"/>

```

```

2828     </xsd:restriction>
2829 </xsd:simpleType>
2830 <xsd:simpleType name="ST_TextNonNegativePoint">
2831     <xsd:restriction base="xsd:int">
2832         <xsd:minInclusive value="0"/>
2833         <xsd:maxInclusive value="400000"/>
2834     </xsd:restriction>
2835 </xsd:simpleType>
2836 <xsd:simpleType name="ST_TextFontSize">
2837     <xsd:restriction base="xsd:int">
2838         <xsd:minInclusive value="100"/>
2839         <xsd:maxInclusive value="400000"/>
2840     </xsd:restriction>
2841 </xsd:simpleType>
2842 <xsd:simpleType name="ST_TextTypeface">
2843     <xsd:restriction base="xsd:string"/>
2844 </xsd:simpleType>
2845 <xsd:complexType name="CT_TextFont">
2846     <xsd:attribute name="typeface" type="ST_TextTypeface" use="required"/>
2847     <xsd:attribute name="panose" type="s:ST_Panose" use="optional"/>
2848     <xsd:attribute name="pitchFamily" type="xsd:byte" use="optional" default="0"/>
2849     <xsd:attribute name="charset" type="xsd:byte" use="optional" default="1"/>
2850 </xsd:complexType>
2851 <xsd:simpleType name="ST_TextUnderlineType">
2852     <xsd:restriction base="xsd:token">
2853         <xsd:enumeration value="none"/>
2854         <xsd:enumeration value="words"/>
2855         <xsd:enumeration value="sng"/>
2856         <xsd:enumeration value="dbl"/>
2857         <xsd:enumeration value="heavy"/>
2858         <xsd:enumeration value="dotted"/>
2859         <xsd:enumeration value="dottedHeavy"/>
2860         <xsd:enumeration value="dash"/>
2861         <xsd:enumeration value="dashHeavy"/>
2862         <xsd:enumeration value="dashLong"/>
2863         <xsd:enumeration value="dashLongHeavy"/>
2864         <xsd:enumeration value="dotDash"/>
2865         <xsd:enumeration value="dotDashHeavy"/>
2866         <xsd:enumeration value="dotDotDash"/>
2867         <xsd:enumeration value="dotDotDashHeavy"/>
2868         <xsd:enumeration value="wavy"/>
2869         <xsd:enumeration value="wavyHeavy"/>
2870         <xsd:enumeration value="wavyDbl"/>
2871     </xsd:restriction>
2872 </xsd:simpleType>
2873 <xsd:complexType name="CT_TextUnderlineLineFollowText"/>
2874 <xsd:complexType name="CT_TextUnderlineFillFollowText"/>
2875 <xsd:complexType name="CT_TextUnderlineFillGroupWrapper">
2876     <xsd:group ref="EG_FillProperties" minOccurs="1" maxOccurs="1"/>
2877 </xsd:complexType>
2878 <xsd:group name="EG_TextUnderlineLine">
2879     <xsd:choice>
2880         <xsd:element name="uLnTx" type="CT_TextUnderlineLineFollowText"/>

```

```

2881     <xsd:element name="uLn" type="CT LineProperties" minOccurs="0" maxOccurs="1"/>
2882   </xsd:choice>
2883 </xsd:group>
2884 <xsd:group name="EG_TextUnderlineFill">
2885   <xsd:choice>
2886     <xsd:element name="uFillTx" type="CT TextUnderlineFillFollowText"/>
2887     <xsd:element name="uFill" type="CT TextUnderlineFillGroupWrapper"/>
2888   </xsd:choice>
2889 </xsd:group>
2890 <xsd:simpleType name="ST_TextStrikeType">
2891   <xsd:restriction base="xsd:token">
2892     <xsd:enumeration value="noStrike"/>
2893     <xsd:enumeration value="sngStrike"/>
2894     <xsd:enumeration value="dblStrike"/>
2895   </xsd:restriction>
2896 </xsd:simpleType>
2897 <xsd:simpleType name="ST_TextCapsType">
2898   <xsd:restriction base="xsd:token">
2899     <xsd:enumeration value="none"/>
2900     <xsd:enumeration value="small"/>
2901     <xsd:enumeration value="all"/>
2902   </xsd:restriction>
2903 </xsd:simpleType>
2904 <xsd:complexType name="CT_TextCharacterProperties">
2905   <xsd:sequence>
2906     <xsd:element name="ln" type="CT LineProperties" minOccurs="0" maxOccurs="1"/>
2907     <xsd:group ref="EG_FillProperties" minOccurs="0" maxOccurs="1"/>
2908     <xsd:group ref="EG_EffectProperties" minOccurs="0" maxOccurs="1"/>
2909     <xsd:element name="highlight" type="CT Color" minOccurs="0" maxOccurs="1"/>
2910     <xsd:group ref="EG_TextUnderlineLine" minOccurs="0" maxOccurs="1"/>
2911     <xsd:group ref="EG_TextUnderlineFill" minOccurs="0" maxOccurs="1"/>
2912     <xsd:element name="latin" type="CT TextFont" minOccurs="0" maxOccurs="1"/>
2913     <xsd:element name="ea" type="CT TextFont" minOccurs="0" maxOccurs="1"/>
2914     <xsd:element name="cs" type="CT TextFont" minOccurs="0" maxOccurs="1"/>
2915     <xsd:element name="sym" type="CT TextFont" minOccurs="0" maxOccurs="1"/>
2916     <xsd:element name="hlinkClick" type="CT Hyperlink" minOccurs="0" maxOccurs="1"/>
2917     <xsd:element name="hlinkMouseOver" type="CT Hyperlink" minOccurs="0" maxOccurs="1"/>
2918     <xsd:element name="rtl" type="CT Boolean" minOccurs="0" maxOccurs="1"/>
2919     <xsd:element name="extLst" type="CT OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
2920   </xsd:sequence>
2921   <xsd:attribute name="kumimoji" type="xsd:boolean" use="optional"/>
2922   <xsd:attribute name="lang" type="s:ST_Lang" use="optional"/>
2923   <xsd:attribute name="altLang" type="s:ST_Lang" use="optional"/>
2924   <xsd:attribute name="sz" type="ST_TextFontSize" use="optional"/>
2925   <xsd:attribute name="b" type="xsd:boolean" use="optional"/>
2926   <xsd:attribute name="i" type="xsd:boolean" use="optional"/>
2927   <xsd:attribute name="u" type="ST_TextUnderlineType" use="optional"/>
2928   <xsd:attribute name="strike" type="ST_TextStrikeType" use="optional"/>
2929   <xsd:attribute name="kern" type="ST_TextNonNegativePoint" use="optional"/>
2930   <xsd:attribute name="cap" type="ST_TextCapsType" use="optional"/>
2931   <xsd:attribute name="spc" type="ST_TextPoint" use="optional"/>
2932   <xsd:attribute name="normalizeH" type="xsd:boolean" use="optional"/>
2933   <xsd:attribute name="baseline" type="ST_Percentage" use="optional"/>

```

```

2934     <xsd:attribute name="noProof" type="xsd:boolean" use="optional"/>
2935     <xsd:attribute name="dirty" type="xsd:boolean" use="optional" default="true"/>
2936     <xsd:attribute name="err" type="xsd:boolean" use="optional" default="false"/>
2937     <xsd:attribute name="smtClean" type="xsd:boolean" use="optional" default="true"/>
2938     <xsd:attribute name="smtId" type="xsd:unsignedInt" use="optional" default="0"/>
2939     <xsd:attribute name="bmk" type="xsd:string" use="optional"/>
2940 </xsd:complexType>
2941 <xsd:complexType name="CT_Boolean">
2942     <xsd:attribute name="val" type="s:ST_OnOff" default="0"/>
2943 </xsd:complexType>
2944 <xsd:simpleType name="ST_TextSpacingPoint">
2945     <xsd:restriction base="xsd:int">
2946         <xsd:minInclusive value="0"/>
2947         <xsd:maxInclusive value="158400"/>
2948     </xsd:restriction>
2949 </xsd:simpleType>
2950 <xsd:simpleType name="ST_TextSpacingPercentOrPercentString">
2951     <xsd:union memberTypes="ST_TextSpacingPercent s:ST_Percentage"/>
2952 </xsd:simpleType>
2953 <xsd:simpleType name="ST_TextSpacingPercent">
2954     <xsd:restriction base="ST_PercentageDecimal">
2955         <xsd:minInclusive value="0"/>
2956         <xsd:maxInclusive value="13200000"/>
2957     </xsd:restriction>
2958 </xsd:simpleType>
2959 <xsd:complexType name="CT_TextSpacingPercent">
2960     <xsd:attribute name="val" type="ST_TextSpacingPercentOrPercentString" use="required"/>
2961 </xsd:complexType>
2962 <xsd:complexType name="CT_TextSpacingPoint">
2963     <xsd:attribute name="val" type="ST_TextSpacingPoint" use="required"/>
2964 </xsd:complexType>
2965 <xsd:simpleType name="ST_TextMargin">
2966     <xsd:restriction base="ST_Coordinate32Unqualified">
2967         <xsd:minInclusive value="0"/>
2968         <xsd:maxInclusive value="51206400"/>
2969     </xsd:restriction>
2970 </xsd:simpleType>
2971 <xsd:simpleType name="ST_TextIndent">
2972     <xsd:restriction base="ST_Coordinate32Unqualified">
2973         <xsd:minInclusive value="-51206400"/>
2974         <xsd:maxInclusive value="51206400"/>
2975     </xsd:restriction>
2976 </xsd:simpleType>
2977 <xsd:simpleType name="ST_TextTabAlignType">
2978     <xsd:restriction base="xsd:token">
2979         <xsd:enumeration value="l"/>
2980         <xsd:enumeration value="ctr"/>
2981         <xsd:enumeration value="r"/>
2982         <xsd:enumeration value="dec"/>
2983     </xsd:restriction>
2984 </xsd:simpleType>
2985 <xsd:complexType name="CT_TextTabStop">
2986     <xsd:attribute name="pos" type="ST_Coordinate32" use="optional"/>

```

```

2987     <xsd:attribute name="aln" type="ST_TextTabAlignType" use="optional"/>
2988 </xsd:complexType>
2989 <xsd:complexType name="CT_TextTabStopList">
2990     <xsd:sequence>
2991         <xsd:element name="tab" type="CT_TextTabStop" minOccurs="0" maxOccurs="32"/>
2992     </xsd:sequence>
2993 </xsd:complexType>
2994 <xsd:complexType name="CT_TextLineBreak">
2995     <xsd:sequence>
2996         <xsd:element name="rPr" type="CT_TextCharacterProperties" minOccurs="0" maxOccurs="1"/>
2997     </xsd:sequence>
2998 </xsd:complexType>
2999 <xsd:complexType name="CT_TextSpacing">
3000     <xsd:choice>
3001         <xsd:element name="spcPct" type="CT_TextSpacingPercent"/>
3002         <xsd:element name="spcPts" type="CT_TextSpacingPoint"/>
3003     </xsd:choice>
3004 </xsd:complexType>
3005 <xsd:simpleType name="ST_TextAlignType">
3006     <xsd:restriction base="xsd:token">
3007         <xsd:enumeration value="l"/>
3008         <xsd:enumeration value="ctr"/>
3009         <xsd:enumeration value="r"/>
3010         <xsd:enumeration value="just"/>
3011         <xsd:enumeration value="justLow"/>
3012         <xsd:enumeration value="dist"/>
3013         <xsd:enumeration value="thaiDist"/>
3014     </xsd:restriction>
3015 </xsd:simpleType>
3016 <xsd:simpleType name="ST_TextFontAlignType">
3017     <xsd:restriction base="xsd:token">
3018         <xsd:enumeration value="auto"/>
3019         <xsd:enumeration value="t"/>
3020         <xsd:enumeration value="ctr"/>
3021         <xsd:enumeration value="base"/>
3022         <xsd:enumeration value="b"/>
3023     </xsd:restriction>
3024 </xsd:simpleType>
3025 <xsd:simpleType name="ST_TextIndentLevelType">
3026     <xsd:restriction base="xsd:int">
3027         <xsd:minInclusive value="0"/>
3028         <xsd:maxInclusive value="8"/>
3029     </xsd:restriction>
3030 </xsd:simpleType>
3031 <xsd:complexType name="CT_TextParagraphProperties">
3032     <xsd:sequence>
3033         <xsd:element name="lnSpc" type="CT_TextSpacing" minOccurs="0" maxOccurs="1"/>
3034         <xsd:element name="spcBef" type="CT_TextSpacing" minOccurs="0" maxOccurs="1"/>
3035         <xsd:element name="spcAft" type="CT_TextSpacing" minOccurs="0" maxOccurs="1"/>
3036         <xsd:group ref="EG_TextBulletColor" minOccurs="0" maxOccurs="1"/>
3037         <xsd:group ref="EG_TextBulletSize" minOccurs="0" maxOccurs="1"/>
3038         <xsd:group ref="EG_TextBulletTypeface" minOccurs="0" maxOccurs="1"/>
3039         <xsd:group ref="EG_TextBullet" minOccurs="0" maxOccurs="1"/>

```



```

3040     <xsd:element name="tabLst" type="CT_TextTabStopList" minOccurs="0" maxOccurs="1"/>
3041     <xsd:element name="defRPr" type="CT_TextCharacterProperties" minOccurs="0" maxOccurs="1"/>
3042     <xsd:element name="extLst" type="CT_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>
3043 </xsd:sequence>
3044 <xsd:attribute name="marL" type="ST_TextMargin" use="optional"/>
3045 <xsd:attribute name="marR" type="ST_TextMargin" use="optional"/>
3046 <xsd:attribute name="lvl" type="ST_TextIndentLevelType" use="optional"/>
3047 <xsd:attribute name="indent" type="ST_TextIndent" use="optional"/>
3048 <xsd:attribute name="algn" type="ST_TextAlignType" use="optional"/>
3049 <xsd:attribute name="defTabSz" type="ST_Coordinate32" use="optional"/>
3050 <xsd:attribute name="rtl" type="xsd:boolean" use="optional"/>
3051 <xsd:attribute name="eaLnBrk" type="xsd:boolean" use="optional"/>
3052 <xsd:attribute name="fontAlgn" type="ST_TextFontAlignType" use="optional"/>
3053 <xsd:attribute name="latinLnBrk" type="xsd:boolean" use="optional"/>
3054 <xsd:attribute name="hangingPunct" type="xsd:boolean" use="optional"/>
3055 </xsd:complexType>
3056 <xsd:complexType name="CT_TextField">
3057     <xsd:sequence>
3058         <xsd:element name="rPr" type="CT_TextCharacterProperties" minOccurs="0" maxOccurs="1"/>
3059         <xsd:element name="pPr" type="CT_TextParagraphProperties" minOccurs="0" maxOccurs="1"/>
3060         <xsd:element name="t" type="xsd:string" minOccurs="0" maxOccurs="1"/>
3061     </xsd:sequence>
3062     <xsd:attribute name="id" type="s:ST_Guid" use="required"/>
3063     <xsd:attribute name="type" type="xsd:string" use="optional"/>
3064 </xsd:complexType>
3065 <xsd:group name="EG_TextRun">
3066     <xsd:choice>
3067         <xsd:element name="r" type="CT-RegularTextRun"/>
3068         <xsd:element name="br" type="CT-TextLineBreak"/>
3069         <xsd:element name="fld" type="CT_TextField"/>
3070     </xsd:choice>
3071 </xsd:group>
3072 <xsd:complexType name="CT-RegularTextRun">
3073     <xsd:sequence>
3074         <xsd:element name="rPr" type="CT_TextCharacterProperties" minOccurs="0" maxOccurs="1"/>
3075         <xsd:element name="t" type="xsd:string" minOccurs="1" maxOccurs="1"/>
3076     </xsd:sequence>
3077 </xsd:complexType>
3078 </xsd:schema>

```

## A.4.2 DrawingML - Picture

This schema is available in the file dml-picture.xsd.

```

1 <xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
2   xmlns="http://schemas.openxmlformats.org/drawingml/2006/picture"
3   xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main" elementFormDefault="qualified"
4   targetNamespace="http://schemas.openxmlformats.org/drawingml/2006/picture">
5   <xsd:import namespace="http://schemas.openxmlformats.org/drawingml/2006/main" schemaLocation="dml-
6     main.xsd"/>
7   <xsd:complexType name="CT_PictureNonVisual">
8     <xsd:sequence>
9       <xsd:element name="cNvPr" type="a:CT-NonVisualDrawingProps" minOccurs="1" maxOccurs="1"/>

```

```

10      <xsd:element name="cNvPicPr" type="a:CT_NonVisualPictureProperties" minOccurs="1"
11          maxOccurs="1"/>
12    </xsd:sequence>
13  </xsd:complexType>
14  <xsd:complexType name="CT_Picture">
15    <xsd:sequence minOccurs="1" maxOccurs="1">
16      <xsd:element name="nvPicPr" type="CT_PictureNonVisual" minOccurs="1" maxOccurs="1"/>
17      <xsd:element name="blipFill" type="a:CT_BlipFillProperties" minOccurs="1" maxOccurs="1"/>
18      <xsd:element name="spPr" type="a:CT_ShapeProperties" minOccurs="1" maxOccurs="1"/>
19    </xsd:sequence>
20  </xsd:complexType>
21  <xsd:element name="pic" type="CT_Picture"/>
22 </xsd:schema>

```

### A.4.3 DrawingML - Legacy Compatibility

This schema is available in the file dml-compatibility.xsd.

```

1 <xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
2   xmlns="http://schemas.openxmlformats.org/drawingml/2006/compatibility"
3   xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main"
4   xmlns:r="http://schemas.openxmlformats.org/officeDocument/2006/relationships"
5   elementFormDefault="qualified"
6   targetNamespace="http://schemas.openxmlformats.org/drawingml/2006/compatibility">
7   <xsd:import namespace="http://schemas.openxmlformats.org/drawingml/2006/main" schemaLocation="dml-
8     main.xsd"/>
9   <xsd:complexType name="CT_Compat">
10     <xsd:attribute name="spid" type="a:ST_ShapeID" use="required"/>
11   </xsd:complexType>
12   <xsd:element name="legacyDrawing" type="CT_Compat"/>
13 </xsd:schema>

```

### A.4.4 DrawingML - Locked Canvas

This schema is available in the file dml-lockedCanvas.xsd.

```

1 <xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
2   xmlns="http://schemas.openxmlformats.org/drawingml/2006/lockedCanvas"
3   xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main"
4   xmlns:r="http://schemas.openxmlformats.org/officeDocument/2006/relationships"
5   elementFormDefault="qualified"
6   targetNamespace="http://schemas.openxmlformats.org/drawingml/2006/lockedCanvas">
7   <xsd:import namespace="http://schemas.openxmlformats.org/drawingml/2006/main" schemaLocation="dml-
8     main.xsd"/>
9   <xsd:element name="lockedCanvas" type="a:CT_GvmlGroupShape"/>
10 </xsd:schema>

```

### A.4.5 DrawingML - WordprocessingML Drawing

This schema is available in the file dml-wordprocessingDrawing.xsd.

```

1 <xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
2   xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main"

```



```

3  xmlns:w="http://schemas.openxmlformats.org/wordprocessingml/2006/main"
4  xmlns="http://schemas.openxmlformats.org/drawingml/2006/wordprocessingDrawing"
5  targetNamespace="http://schemas.openxmlformats.org/drawingml/2006/wordprocessingDrawing"
6  elementFormDefault="qualified">
7    <xsd:import namespace="http://schemas.openxmlformats.org/drawingml/2006/main" schemaLocation="dml-
8      main.xsd"/>
9    <xsd:import schemaLocation="wml.xsd"
10      namespace="http://schemas.openxmlformats.org/wordprocessingml/2006/main"/>
11    <xsd:complexType name="CT_EffectExtent">
12      <xsd:attribute name="l" type="a:ST_Coordinate" use="required"/>
13      <xsd:attribute name="t" type="a:ST_Coordinate" use="required"/>
14      <xsd:attribute name="r" type="a:ST_Coordinate" use="required"/>
15      <xsd:attribute name="b" type="a:ST_Coordinate" use="required"/>
16    </xsd:complexType>
17    <xsd:simpleType name="ST_WrapDistance">
18      <xsd:restriction base="xsd:unsignedInt"/>
19    </xsd:simpleType>
20    <xsd:complexType name="CT_Inline">
21      <xsd:sequence>
22        <xsd:element name="extent" type="a:CT_PositiveSize2D"/>
23        <xsd:element name="effectExtent" type="CT_EffectExtent" minOccurs="0"/>
24        <xsd:element name="docPr" type="a:CT_NonVisualDrawingProps" minOccurs="1" maxOccurs="1"/>
25        <xsd:element name="cNvGraphicFramePr" type="a:CT_NonVisualGraphicFrameProperties"
26          minOccurs="0" maxOccurs="1"/>
27        <xsd:element ref="a:graphic" minOccurs="1" maxOccurs="1"/>
28      </xsd:sequence>
29      <xsd:attribute name="distT" type="ST_WrapDistance" use="optional"/>
30      <xsd:attribute name="distB" type="ST_WrapDistance" use="optional"/>
31      <xsd:attribute name="distL" type="ST_WrapDistance" use="optional"/>
32      <xsd:attribute name="distR" type="ST_WrapDistance" use="optional"/>
33    </xsd:complexType>
34    <xsd:simpleType name="ST_WrapText">
35      <xsd:restriction base="xsd:token">
36        <xsd:enumeration value="bothSides"/>
37        <xsd:enumeration value="left"/>
38        <xsd:enumeration value="right"/>
39        <xsd:enumeration value="largest"/>
40      </xsd:restriction>
41    </xsd:simpleType>
42    <xsd:complexType name="CT_WrapPath">
43      <xsd:sequence>
44        <xsd:element name="start" type="a:CT_Point2D" minOccurs="1" maxOccurs="1"/>
45        <xsd:element name="lineTo" type="a:CT_Point2D" minOccurs="2" maxOccurs="unbounded"/>
46      </xsd:sequence>
47      <xsd:attribute name="edited" type="xsd:boolean" use="optional"/>
48    </xsd:complexType>
49    <xsd:complexType name="CT_WrapNone"/>
50    <xsd:complexType name="CT_WrapSquare">
51      <xsd:sequence>
52        <xsd:element name="effectExtent" type="CT_EffectExtent" minOccurs="0"/>
53      </xsd:sequence>
54      <xsd:attribute name="wrapText" type="ST_WrapText" use="required"/>
55      <xsd:attribute name="distT" type="ST_WrapDistance" use="optional"/>

```

```

56     <xsd:attribute name="distB" type="ST WrapDistance" use="optional"/>
57     <xsd:attribute name="distL" type="ST WrapDistance" use="optional"/>
58     <xsd:attribute name="distR" type="ST WrapDistance" use="optional"/>
59 </xsd:complexType>
60 <xsd:complexType name="CT_WrapTight">
61     <xsd:sequence>
62         <xsd:element name="wrapPolygon" type="CT WrapPath" minOccurs="1" maxOccurs="1"/>
63     </xsd:sequence>
64     <xsd:attribute name="wrapText" type="ST WrapText" use="required"/>
65     <xsd:attribute name="distL" type="ST WrapDistance" use="optional"/>
66     <xsd:attribute name="distR" type="ST WrapDistance" use="optional"/>
67 </xsd:complexType>
68 <xsd:complexType name="CT_WrapThrough">
69     <xsd:sequence>
70         <xsd:element name="wrapPolygon" type="CT WrapPath" minOccurs="1" maxOccurs="1"/>
71     </xsd:sequence>
72     <xsd:attribute name="wrapText" type="ST WrapText" use="required"/>
73     <xsd:attribute name="distL" type="ST WrapDistance" use="optional"/>
74     <xsd:attribute name="distR" type="ST WrapDistance" use="optional"/>
75 </xsd:complexType>
76 <xsd:complexType name="CT_WrapTopBottom">
77     <xsd:sequence>
78         <xsd:element name="effectExtent" type="CT EffectExtent" minOccurs="0"/>
79     </xsd:sequence>
80     <xsd:attribute name="distT" type="ST WrapDistance" use="optional"/>
81     <xsd:attribute name="distB" type="ST WrapDistance" use="optional"/>
82 </xsd:complexType>
83 <xsd:group name="EG_WrapType">
84     <xsd:sequence>
85         <xsd:choice minOccurs="1" maxOccurs="1">
86             <xsd:element name="wrapNone" type="CT WrapNone" minOccurs="1" maxOccurs="1"/>
87             <xsd:element name="wrapSquare" type="CT WrapSquare" minOccurs="1" maxOccurs="1"/>
88             <xsd:element name="wrapTight" type="CT WrapTight" minOccurs="1" maxOccurs="1"/>
89             <xsd:element name="wrapThrough" type="CT WrapThrough" minOccurs="1" maxOccurs="1"/>
90             <xsd:element name="wrapTopAndBottom" type="CT WrapTopBottom" minOccurs="1"
91                 maxOccurs="1"/>
92         </xsd:choice>
93     </xsd:sequence>
94 </xsd:group>
95 <xsd:simpleType name="ST_PositionOffset">
96     <xsd:restriction base="xsd:int"/>
97 </xsd:simpleType>
98 <xsd:simpleType name="ST_AlignH">
99     <xsd:restriction base="xsd:token">
100         <xsd:enumeration value="left"/>
101         <xsd:enumeration value="right"/>
102         <xsd:enumeration value="center"/>
103         <xsd:enumeration value="inside"/>
104         <xsd:enumeration value="outside"/>
105     </xsd:restriction>
106 </xsd:simpleType>
107 <xsd:simpleType name="ST_RelFromH">
108     <xsd:restriction base="xsd:token">

```

```

109      <xsd:enumeration value="margin"/>
110      <xsd:enumeration value="page"/>
111      <xsd:enumeration value="column"/>
112      <xsd:enumeration value="character"/>
113      <xsd:enumeration value="leftMargin"/>
114      <xsd:enumeration value="rightMargin"/>
115      <xsd:enumeration value="insideMargin"/>
116      <xsd:enumeration value="outsideMargin"/>
117    </xsd:restriction>
118  </xsd:simpleType>
119  <xsd:complexType name="CT_PosH">
120    <xsd:sequence>
121      <xsd:choice minOccurs="1" maxOccurs="1">
122        <xsd:element name="align" type="ST_AlignH" minOccurs="1" maxOccurs="1"/>
123        <xsd:element name="posOffset" type="ST_PositionOffset" minOccurs="1" maxOccurs="1"/>
124      </xsd:choice>
125    </xsd:sequence>
126    <xsd:attribute name="relativeFrom" type="ST_RelFromH" use="required"/>
127  </xsd:complexType>
128  <xsd:simpleType name="ST_AlignV">
129    <xsd:restriction base="xsd:token">
130      <xsd:enumeration value="top"/>
131      <xsd:enumeration value="bottom"/>
132      <xsd:enumeration value="center"/>
133      <xsd:enumeration value="inside"/>
134      <xsd:enumeration value="outside"/>
135    </xsd:restriction>
136  </xsd:simpleType>
137  <xsd:simpleType name="ST_RelFromV">
138    <xsd:restriction base="xsd:token">
139      <xsd:enumeration value="margin"/>
140      <xsd:enumeration value="page"/>
141      <xsd:enumeration value="paragraph"/>
142      <xsd:enumeration value="line"/>
143      <xsd:enumeration value="topMargin"/>
144      <xsd:enumeration value="bottomMargin"/>
145      <xsd:enumeration value="insideMargin"/>
146      <xsd:enumeration value="outsideMargin"/>
147    </xsd:restriction>
148  </xsd:simpleType>
149  <xsd:complexType name="CT_PosV">
150    <xsd:sequence>
151      <xsd:choice minOccurs="1" maxOccurs="1">
152        <xsd:element name="align" type="ST_AlignV" minOccurs="1" maxOccurs="1"/>
153        <xsd:element name="posOffset" type="ST_PositionOffset" minOccurs="1" maxOccurs="1"/>
154      </xsd:choice>
155    </xsd:sequence>
156    <xsd:attribute name="relativeFrom" type="ST_RelFromV" use="required"/>
157  </xsd:complexType>
158  <xsd:complexType name="CT_Anchor">
159    <xsd:sequence>
160      <xsd:element name="simplePos" type="a:CT_Point2D"/>
161      <xsd:element name="positionH" type="CT_PosH"/>

```

```

162     <xsd:element name="positionV" type="CT_PosV"/>
163     <xsd:element name="extent" type="a:CT_PositiveSize2D"/>
164     <xsd:element name="effectExtent" type="CT_EffectExtent" minOccurs="0"/>
165     <xsd:group ref="EG_WrapType"/>
166     <xsd:element name="docPr" type="a:CT_NonVisualDrawingProps" minOccurs="1" maxOccurs="1"/>
167     <xsd:element name="cNvGraphicFramePr" type="a:CT_NonVisualGraphicFrameProperties"
168         minOccurs="0" maxOccurs="1"/>
169     <xsd:element ref="a:graphic" minOccurs="1" maxOccurs="1"/>
170 </xsd:sequence>
171 <xsd:attribute name="distT" type="ST_WrapDistance" use="optional"/>
172 <xsd:attribute name="distB" type="ST_WrapDistance" use="optional"/>
173 <xsd:attribute name="distL" type="ST_WrapDistance" use="optional"/>
174 <xsd:attribute name="distR" type="ST_WrapDistance" use="optional"/>
175 <xsd:attribute name="simplePos" type="xsd:boolean"/>
176 <xsd:attribute name="relativeHeight" type="xsd:unsignedInt" use="required"/>
177 <xsd:attribute name="behindDoc" type="xsd:boolean" use="required"/>
178 <xsd:attribute name="locked" type="xsd:boolean" use="required"/>
179 <xsd:attribute name="layoutInCell" type="xsd:boolean" use="required"/>
180 <xsd:attribute name="hidden" type="xsd:boolean" use="optional"/>
181 <xsd:attribute name="allowOverlap" type="xsd:boolean" use="required"/>
182 </xsd:complexType>
183 <xsd:element name="inline" type="CT_Inline"/>
184 <xsd:element name="anchor" type="CT_Anchor"/>
185 </xsd:schema>

```

#### A.4.6 DrawingML - SpreadsheetML Drawing

This schema is available in the file dml-spreadsheetDrawing.xsd.

```

1 <xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
2   xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main"
3   xmlns="http://schemas.openxmlformats.org/drawingml/2006/spreadsheetDrawing"
4   xmlns:r="http://schemas.openxmlformats.org/officeDocument/2006/relationships"
5   targetNamespace="http://schemas.openxmlformats.org/drawingml/2006/spreadsheetDrawing"
6   elementFormDefault="qualified">
7   <xsd:import namespace="http://schemas.openxmlformats.org/drawingml/2006/main" schemaLocation="dml-
8     main.xsd"/>
9   <xsd:import schemaLocation="shared-relationshipReference.xsd"
10     namespace="http://schemas.openxmlformats.org/officeDocument/2006/relationships"/>
11   <xsd:element name="from" type="CT_Marker"/>
12   <xsd:element name="to" type="CT_Marker"/>
13   <xsd:complexType name="CT_AnchorClientData">
14     <xsd:attribute name="fLocksWithSheet" type="xsd:boolean" use="optional" default="true"/>
15     <xsd:attribute name="fPrintsWithSheet" type="xsd:boolean" use="optional" default="true"/>
16   </xsd:complexType>
17   <xsd:complexType name="CT_ShapeNonVisual">
18     <xsd:sequence>
19       <xsd:element name="cNvPr" type="a:CT_NonVisualDrawingProps" minOccurs="1" maxOccurs="1"/>
20       <xsd:element name="cNvSpPr" type="a:CT_NonVisualDrawingShapeProps" minOccurs="1"
21         maxOccurs="1"/>
22     </xsd:sequence>
23   </xsd:complexType>
24   <xsd:complexType name="CT_Shape">

```

```

25     <xsd:sequence>
26         <xsd:element name="nvSpPr" type="CT_ShapeNonVisual" minOccurs="1" maxOccurs="1"/>
27         <xsd:element name="spPr" type="a:CT_ShapeProperties" minOccurs="1" maxOccurs="1"/>
28         <xsd:element name="style" type="a:CT_ShapeStyle" minOccurs="0" maxOccurs="1"/>
29         <xsd:element name="txBody" type="a:CT_TextBody" minOccurs="0" maxOccurs="1"/>
30     </xsd:sequence>
31     <xsd:attribute name="macro" type="xsd:string" use="optional"/>
32     <xsd:attribute name="textlink" type="xsd:string" use="optional"/>
33     <xsd:attribute name="fLocksText" type="xsd:boolean" use="optional" default="true"/>
34     <xsd:attribute name="fPublished" type="xsd:boolean" use="optional" default="false"/>
35 </xsd:complexType>
36 <xsd:complexType name="CT_ConnectorNonVisual">
37     <xsd:sequence>
38         <xsd:element name="cNvPr" type="a:CT_NonVisualDrawingProps" minOccurs="1" maxOccurs="1"/>
39         <xsd:element name="cNvCxnSpPr" type="a:CT_NonVisualConnectorProperties" minOccurs="1"
40             maxOccurs="1"/>
41     </xsd:sequence>
42 </xsd:complexType>
43 <xsd:complexType name="CT_Connector">
44     <xsd:sequence>
45         <xsd:element name="nvCxnSpPr" type="CT_ConnectorNonVisual" minOccurs="1" maxOccurs="1"/>
46         <xsd:element name="spPr" type="a:CT_ShapeProperties" minOccurs="1" maxOccurs="1"/>
47         <xsd:element name="style" type="a:CT_ShapeStyle" minOccurs="0" maxOccurs="1"/>
48     </xsd:sequence>
49     <xsd:attribute name="macro" type="xsd:string" use="optional"/>
50     <xsd:attribute name="fPublished" type="xsd:boolean" use="optional" default="false"/>
51 </xsd:complexType>
52 <xsd:complexType name="CT_PictureNonVisual">
53     <xsd:sequence>
54         <xsd:element name="cNvPr" type="a:CT_NonVisualDrawingProps" minOccurs="1" maxOccurs="1"/>
55         <xsd:element name="cNvPicPr" type="a:CT_NonVisualPictureProperties" minOccurs="1"
56             maxOccurs="1"/>
57     </xsd:sequence>
58 </xsd:complexType>
59 <xsd:complexType name="CT_Picture">
60     <xsd:sequence>
61         <xsd:element name="nvPicPr" type="CT_PictureNonVisual" minOccurs="1" maxOccurs="1"/>
62         <xsd:element name="blipFill" type="a:CT_BlipFillProperties" minOccurs="1" maxOccurs="1"/>
63         <xsd:element name="spPr" type="a:CT_ShapeProperties" minOccurs="1" maxOccurs="1"/>
64         <xsd:element name="style" type="a:CT_ShapeStyle" minOccurs="0" maxOccurs="1"/>
65     </xsd:sequence>
66     <xsd:attribute name="macro" type="xsd:string" use="optional" default=""/>
67     <xsd:attribute name="fPublished" type="xsd:boolean" use="optional" default="false"/>
68 </xsd:complexType>
69 <xsd:complexType name="CT_GraphicalObjectFrameNonVisual">
70     <xsd:sequence>
71         <xsd:element name="cNvPr" type="a:CT_NonVisualDrawingProps" minOccurs="1" maxOccurs="1"/>
72         <xsd:element name="cNvGraphicFramePr" type="a:CT_NonVisualGraphicFrameProperties"
73             minOccurs="1" maxOccurs="1"/>
74     </xsd:sequence>
75 </xsd:complexType>
76 <xsd:complexType name="CT_GraphicalObjectFrame">
77     <xsd:sequence>

```

```

78      <xsd:element name="nvGraphicFramePr" type="CT_GraphicalObjectFrameNonVisual" minOccurs="1"
79      maxOccurs="1"/>
80      <xsd:element name="xfrm" type="a:CT_Transform2D" minOccurs="1" maxOccurs="1"/>
81      <xsd:element ref="a:graphic" minOccurs="1" maxOccurs="1"/>
82    </xsd:sequence>
83    <xsd:attribute name="macro" type="xsd:string" use="optional"/>
84    <xsd:attribute name="fPublished" type="xsd:boolean" use="optional" default="false"/>
85  </xsd:complexType>
86  <xsd:complexType name="CT_GroupShapeNonVisual">
87    <xsd:sequence>
88      <xsd:element name="cNvPr" type="a:CT_NonVisualDrawingProps" minOccurs="1" maxOccurs="1"/>
89      <xsd:element name="cNvGrpSpPr" type="a:CT_NonVisualGroupDrawingShapeProps" minOccurs="1"
90      maxOccurs="1"/>
91    </xsd:sequence>
92  </xsd:complexType>
93  <xsd:complexType name="CT_GroupShape">
94    <xsd:sequence>
95      <xsd:element name="nvGrpSpPr" type="CT_GroupShapeNonVisual" minOccurs="1" maxOccurs="1"/>
96      <xsd:element name="grpSpPr" type="a:CT_GroupShapeProperties" minOccurs="1" maxOccurs="1"/>
97      <xsd:choice minOccurs="0" maxOccurs="unbounded">
98        <xsd:element name="sp" type="CT_Shape"/>
99        <xsd:element name="grpSp" type="CT_GroupShape"/>
100       <xsd:element name="graphicFrame" type="CT_GraphicalObjectFrame"/>
101       <xsd:element name="cxnSp" type="CT_Connector"/>
102       <xsd:element name="pic" type="CT_Picture"/>
103     </xsd:choice>
104   </xsd:sequence>
105 </xsd:complexType>
106 <xsd:group name="EG_ObjectChoices">
107   <xsd:sequence>
108     <xsd:choice minOccurs="1" maxOccurs="1">
109       <xsd:element name="sp" type="CT_Shape"/>
110       <xsd:element name="grpSp" type="CT_GroupShape"/>
111       <xsd:element name="graphicFrame" type="CT_GraphicalObjectFrame"/>
112       <xsd:element name="cxnSp" type="CT_Connector"/>
113       <xsd:element name="pic" type="CT_Picture"/>
114       <xsd:element name="contentPart" type="CT_Rel"/>
115     </xsd:choice>
116   </xsd:sequence>
117 </xsd:group>
118 <xsd:complexType name="CT_Rel">
119   <xsd:attribute ref="r:id" use="required"/>
120 </xsd:complexType>
121 <xsd:simpleType name="ST_ColID">
122   <xsd:restriction base="xsd:int">
123     <xsd:minInclusive value="0"/>
124   </xsd:restriction>
125 </xsd:simpleType>
126 <xsd:simpleType name="ST_RowID">
127   <xsd:restriction base="xsd:int">
128     <xsd:minInclusive value="0"/>
129   </xsd:restriction>
130 </xsd:simpleType>

```

```

131 <xsd:complexType name="CT_Marker">
132   <xsd:sequence>
133     <xsd:element name="col" type="ST_ColID"/>
134     <xsd:element name="colOff" type="a:ST_Coordinate"/>
135     <xsd:element name="row" type="ST_RowID"/>
136     <xsd:element name="rowOff" type="a:ST_Coordinate"/>
137   </xsd:sequence>
138 </xsd:complexType>
139 <xsd:simpleType name="ST_EditAs">
140   <xsd:restriction base="xsd:token">
141     <xsd:enumeration value="twoCell"/>
142     <xsd:enumeration value="oneCell"/>
143     <xsd:enumeration value="absolute"/>
144   </xsd:restriction>
145 </xsd:simpleType>
146 <xsd:complexType name="CT_TwoCellAnchor">
147   <xsd:sequence>
148     <xsd:element name="from" type="CT_Marker"/>
149     <xsd:element name="to" type="CT_Marker"/>
150     <xsd:group ref="EG_ObjectChoices"/>
151     <xsd:element name="clientData" type="CT_AnchorClientData" minOccurs="1" maxOccurs="1"/>
152   </xsd:sequence>
153   <xsd:attribute name="editAs" type="ST_EditAs" use="optional" default="twoCell"/>
154 </xsd:complexType>
155 <xsd:complexType name="CT_OneCellAnchor">
156   <xsd:sequence>
157     <xsd:element name="from" type="CT_Marker"/>
158     <xsd:element name="ext" type="a:CT_PositiveSize2D"/>
159     <xsd:group ref="EG_ObjectChoices"/>
160     <xsd:element name="clientData" type="CT_AnchorClientData" minOccurs="1" maxOccurs="1"/>
161   </xsd:sequence>
162 </xsd:complexType>
163 <xsd:complexType name="CT_AbsoluteAnchor">
164   <xsd:sequence>
165     <xsd:element name="pos" type="a:CT_Point2D"/>
166     <xsd:element name="ext" type="a:CT_PositiveSize2D"/>
167     <xsd:group ref="EG_ObjectChoices"/>
168     <xsd:element name="clientData" type="CT_AnchorClientData" minOccurs="1" maxOccurs="1"/>
169   </xsd:sequence>
170 </xsd:complexType>
171 <xsd:group name="EG_Anchor">
172   <xsd:choice>
173     <xsd:element name="twoCellAnchor" type="CT_TwoCellAnchor"/>
174     <xsd:element name="oneCellAnchor" type="CT_OneCellAnchor"/>
175     <xsd:element name="absoluteAnchor" type="CT_AbsoluteAnchor"/>
176   </xsd:choice>
177 </xsd:group>
178 <xsd:complexType name="CT_Drawing">
179   <xsd:sequence>
180     <xsd:group ref="EG_Anchor" minOccurs="0" maxOccurs="unbounded"/>
181   </xsd:sequence>
182 </xsd:complexType>
183 <xsd:element name="wsDr" type="CT_Drawing"/>

```



184 &lt;/xsd:schema&gt;

## A.5 DrawingML - Components

### A.5.1 DrawingML - Charts

This schema is available in the file dml-chart.xsd.

```

1 <xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
2   xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main"
3   xmlns:r="http://schemas.openxmlformats.org/officeDocument/2006/relationships"
4   xmlns="http://schemas.openxmlformats.org/drawingml/2006/chart"
5   xmlns:cdr="http://schemas.openxmlformats.org/drawingml/2006/chartDrawing"
6   xmlns:s="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes"
7   targetNamespace="http://schemas.openxmlformats.org/drawingml/2006/chart"
8   elementFormDefault="qualified" attributeFormDefault="unqualified" blockDefault="#all">
9   <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/relationships"
10     schemaLocation="shared-relationshipReference.xsd"/>
11   <xsd:import namespace="http://schemas.openxmlformats.org/drawingml/2006/main" schemaLocation="dml-
12     main.xsd"/>
13   <xsd:import namespace="http://schemas.openxmlformats.org/drawingml/2006/chartDrawing"
14     schemaLocation="dml-chartDrawing.xsd"/>
15   <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes"
16     schemaLocation="shared-commonSimpleTypes.xsd"/>
17   <xsd:complexType name="CT_Boolean">
18     <xsd:attribute name="val" type="xsd:boolean" use="optional" default="true"/>
19   </xsd:complexType>
20   <xsd:complexType name="CT_Double">
21     <xsd:attribute name="val" type="xsd:double" use="required"/>
22   </xsd:complexType>
23   <xsd:complexType name="CT_UnsignedInt">
24     <xsd:attribute name="val" type="xsd:unsignedInt" use="required"/>
25   </xsd:complexType>
26   <xsd:complexType name="CT_RelId">
27     <xsd:attribute ref="r:id" use="required"/>
28   </xsd:complexType>
29   <xsd:complexType name="CT_Extension">
30     <xsd:sequence>
31       <xsd:any processContents="lax"/>
32     </xsd:sequence>
33     <xsd:attribute name="uri" type="xsd:token"/>
34   </xsd:complexType>
35   <xsd:complexType name="CT_ExtensionList">
36     <xsd:sequence>
37       <xsd:element name="ext" type="CT_Extension" minOccurs="0" maxOccurs="unbounded"/>
38     </xsd:sequence>
39   </xsd:complexType>
40   <xsd:complexType name="CT_NumVal">
41     <xsd:sequence>
42       <xsd:element name="v" type="s:ST_Xstring" minOccurs="1" maxOccurs="1"/>
43     </xsd:sequence>
44     <xsd:attribute name="idx" type="xsd:unsignedInt" use="required"/>
45     <xsd:attribute name="formatCode" type="s:ST_Xstring" use="optional"/>

```



```

46 </xsd:complexType>
47 <xsd:complexType name="CT_NumData">
48   <xsd:sequence>
49     <xsd:element name="formatCode" type="s:ST_Xstring" minOccurs="0" maxOccurs="1"/>
50     <xsd:element name="ptCount" type="CT_UnsignedInt" minOccurs="0" maxOccurs="1"/>
51     <xsd:element name="pt" type="CT_NumVal" minOccurs="0" maxOccurs="unbounded"/>
52     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
53   </xsd:sequence>
54 </xsd:complexType>
55 <xsd:complexType name="CT_NumRef">
56   <xsd:sequence>
57     <xsd:element name="f" type="xsd:string" minOccurs="1" maxOccurs="1"/>
58     <xsd:element name="numCache" type="CT_NumData" minOccurs="0" maxOccurs="1"/>
59     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
60   </xsd:sequence>
61 </xsd:complexType>
62 <xsd:complexType name="CT_NumDataSource">
63   <xsd:sequence>
64     <xsd:choice minOccurs="1" maxOccurs="1">
65       <xsd:element name="numRef" type="CT_NumRef" minOccurs="1" maxOccurs="1"/>
66       <xsd:element name="numLit" type="CT_NumData" minOccurs="1" maxOccurs="1"/>
67     </xsd:choice>
68   </xsd:sequence>
69 </xsd:complexType>
70 <xsd:complexType name="CT_StrVal">
71   <xsd:sequence>
72     <xsd:element name="v" type="s:ST_Xstring" minOccurs="1" maxOccurs="1"/>
73   </xsd:sequence>
74   <xsd:attribute name="idx" type="xsd:unsignedInt" use="required"/>
75 </xsd:complexType>
76 <xsd:complexType name="CT_StrData">
77   <xsd:sequence>
78     <xsd:element name="ptCount" type="CT_UnsignedInt" minOccurs="0" maxOccurs="1"/>
79     <xsd:element name="pt" type="CT_StrVal" minOccurs="0" maxOccurs="unbounded"/>
80     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
81   </xsd:sequence>
82 </xsd:complexType>
83 <xsd:complexType name="CT_StrRef">
84   <xsd:sequence>
85     <xsd:element name="f" type="xsd:string" minOccurs="1" maxOccurs="1"/>
86     <xsd:element name="strCache" type="CT_StrData" minOccurs="0" maxOccurs="1"/>
87     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
88   </xsd:sequence>
89 </xsd:complexType>
90 <xsd:complexType name="CT_Tx">
91   <xsd:sequence>
92     <xsd:choice minOccurs="1" maxOccurs="1">
93       <xsd:element name="strRef" type="CT_StrRef" minOccurs="1" maxOccurs="1"/>
94       <xsd:element name="rich" type="a:CT_TextBody" minOccurs="1" maxOccurs="1"/>
95     </xsd:choice>
96   </xsd:sequence>
97 </xsd:complexType>
98 <xsd:complexType name="CT_TextLanguageID">

```

```

99     <xsd:attribute name="val" type="s:ST_Lang" use="required"/>
100   </xsd:complexType>
101   <xsd:complexType name="CT_Lvl1">
102     <xsd:sequence>
103       <xsd:element name="pt" type="CT_StrVal" minOccurs="0" maxOccurs="unbounded"/>
104     </xsd:sequence>
105   </xsd:complexType>
106   <xsd:complexType name="CT_MultiLvlStrData">
107     <xsd:sequence>
108       <xsd:element name="ptCount" type="CT_UnsignedInt" minOccurs="0" maxOccurs="1"/>
109       <xsd:element name="lvl" type="CT_Lvl1" minOccurs="0" maxOccurs="unbounded"/>
110       <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
111     </xsd:sequence>
112   </xsd:complexType>
113   <xsd:complexType name="CT_MultiLvlStrRef">
114     <xsd:sequence>
115       <xsd:element name="f" type="xsd:string" minOccurs="1" maxOccurs="1"/>
116       <xsd:element name="multiLvlStrCache" type="CT_MultiLvlStrData" minOccurs="0"
117         maxOccurs="1"/>
118       <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
119     </xsd:sequence>
120   </xsd:complexType>
121   <xsd:complexType name="CT_AxDataSource">
122     <xsd:sequence>
123       <xsd:choice minOccurs="1" maxOccurs="1">
124         <xsd:element name="multiLvlStrRef" type="CT_MultiLvlStrRef" minOccurs="1"
125           maxOccurs="1"/>
126         <xsd:element name="numRef" type="CT_NumRef" minOccurs="1" maxOccurs="1"/>
127         <xsd:element name="numLit" type="CT_NumData" minOccurs="1" maxOccurs="1"/>
128         <xsd:element name="strRef" type="CT_StrRef" minOccurs="1" maxOccurs="1"/>
129         <xsd:element name="strLit" type="CT_StrData" minOccurs="1" maxOccurs="1"/>
130       </xsd:choice>
131     </xsd:sequence>
132   </xsd:complexType>
133   <xsd:complexType name="CT_SerTx">
134     <xsd:sequence>
135       <xsd:choice minOccurs="1" maxOccurs="1">
136         <xsd:element name="strRef" type="CT_StrRef" minOccurs="1" maxOccurs="1"/>
137         <xsd:element name="v" type="s:ST_Xstring" minOccurs="1" maxOccurs="1"/>
138       </xsd:choice>
139     </xsd:sequence>
140   </xsd:complexType>
141   <xsd:simpleType name="ST_LayoutTarget">
142     <xsd:restriction base="xsd:string">
143       <xsd:enumeration value="inner"/>
144       <xsd:enumeration value="outer"/>
145     </xsd:restriction>
146   </xsd:simpleType>
147   <xsd:complexType name="CT_LayoutTarget">
148     <xsd:attribute name="val" type="ST_LayoutTarget" default="outer"/>
149   </xsd:complexType>
150   <xsd:simpleType name="ST_LayoutMode">
151     <xsd:restriction base="xsd:string">

```

```

152     <xsd:enumeration value="edge"/>
153     <xsd:enumeration value="factor"/>
154 </xsd:restriction>
155 </xsd:simpleType>
156 <xsd:complexType name="CT_LayoutMode">
157     <xsd:attribute name="val" type="ST_LayoutMode" default="factor"/>
158 </xsd:complexType>
159 <xsd:complexType name="CT_ManualLayout">
160     <xsd:sequence>
161         <xsd:element name="layoutTarget" type="CT_LayoutTarget" minOccurs="0" maxOccurs="1"/>
162         <xsd:element name="xMode" type="CT_LayoutMode" minOccurs="0" maxOccurs="1"/>
163         <xsd:element name="yMode" type="CT_LayoutMode" minOccurs="0" maxOccurs="1"/>
164         <xsd:element name="wMode" type="CT_LayoutMode" minOccurs="0" maxOccurs="1"/>
165         <xsd:element name="hMode" type="CT_LayoutMode" minOccurs="0" maxOccurs="1"/>
166         <xsd:element name="x" type="CT_Double" minOccurs="0" maxOccurs="1"/>
167         <xsd:element name="y" type="CT_Double" minOccurs="0" maxOccurs="1"/>
168         <xsd:element name="w" type="CT_Double" minOccurs="0" maxOccurs="1"/>
169         <xsd:element name="h" type="CT_Double" minOccurs="0" maxOccurs="1"/>
170         <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
171     </xsd:sequence>
172 </xsd:complexType>
173 <xsd:complexType name="CT_Layout">
174     <xsd:sequence>
175         <xsd:element name="manualLayout" type="CT_ManualLayout" minOccurs="0" maxOccurs="1"/>
176         <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
177     </xsd:sequence>
178 </xsd:complexType>
179 <xsd:complexType name="CT_Title">
180     <xsd:sequence>
181         <xsd:element name="tx" type="CT_Tx" minOccurs="0" maxOccurs="1"/>
182         <xsd:element name="layout" type="CT_Layout" minOccurs="0" maxOccurs="1"/>
183         <xsd:element name="overlay" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
184         <xsd:element name="spPr" type="a:CT_ShapeProperties" minOccurs="0" maxOccurs="1"/>
185         <xsd:element name="txPr" type="a:CT_TextBody" minOccurs="0" maxOccurs="1"/>
186         <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
187     </xsd:sequence>
188 </xsd:complexType>
189 <xsd:simpleType name="ST_RotX">
190     <xsd:restriction base="xsd:byte">
191         <xsd:minInclusive value="-90"/>
192         <xsd:maxInclusive value="90"/>
193     </xsd:restriction>
194 </xsd:simpleType>
195 <xsd:complexType name="CT_RotX">
196     <xsd:attribute name="val" type="ST_RotX" default="0"/>
197 </xsd:complexType>
198 <xsd:simpleType name="ST_HPercent">
199     <xsd:restriction base="xsd:unsignedShort">
200         <xsd:minInclusive value="5"/>
201         <xsd:maxInclusive value="500"/>
202     </xsd:restriction>
203     <xsd:union memberTypes="ST_HPercentWithSymbol ST_HPercentUShort"/>
204 </xsd:simpleType>

```

```

205 <xsd:simpleType name="ST_HPercentWithSymbol">
206   <xsd:restriction base="xsd:string">
207     <xsd:pattern value="0*([5-9])|([1-9][0-9])|([1-4][0-9][0-9])|500)%"/>
208   </xsd:restriction>
209 </xsd:simpleType>
210 <xsd:simpleType name="ST_HPercentUShort">
211   <xsd:restriction base="xsd:unsignedShort">
212     <xsd:minInclusive value="5"/>
213     <xsd:maxInclusive value="500"/>
214   </xsd:restriction>
215 </xsd:simpleType>
216 <xsd:complexType name="CT_HPercent">
217   <xsd:attribute name="val" type="ST_HPercent" default="100%"/>
218 </xsd:complexType>
219 <xsd:simpleType name="ST_RotY">
220   <xsd:restriction base="xsd:unsignedShort">
221     <xsd:minInclusive value="0"/>
222     <xsd:maxInclusive value="360"/>
223   </xsd:restriction>
224 </xsd:simpleType>
225 <xsd:complexType name="CT_RotY">
226   <xsd:attribute name="val" type="ST_RotY" default="0"/>
227 </xsd:complexType>
228 <xsd:simpleType name="ST_DepthPercent">
229   <xsd:union memberTypes="ST_DepthPercentWithSymbol ST_DepthPercentUShort"/>
230 </xsd:simpleType>
231 <xsd:simpleType name="ST_DepthPercentWithSymbol">
232   <xsd:restriction base="xsd:string">
233     <xsd:pattern value="0*([2-9][0-9])|([1-9][0-9][0-9])|(1[0-9][0-9][0-9])|2000)%"/>
234   </xsd:restriction>
235 </xsd:simpleType>
236 <xsd:simpleType name="ST_DepthPercentUShort">
237   <xsd:restriction base="xsd:unsignedShort">
238     <xsd:minInclusive value="20"/>
239     <xsd:maxInclusive value="2000"/>
240   </xsd:restriction>
241 </xsd:simpleType>
242 <xsd:complexType name="CT_DepthPercent">
243   <xsd:attribute name="val" type="ST_DepthPercent" default="100%"/>
244 </xsd:complexType>
245 <xsd:simpleType name="ST_Perspective">
246   <xsd:restriction base="xsd:unsignedByte">
247     <xsd:minInclusive value="0"/>
248     <xsd:maxInclusive value="240"/>
249   </xsd:restriction>
250 </xsd:simpleType>
251 <xsd:complexType name="CT_Perspective">
252   <xsd:attribute name="val" type="ST_Perspective" default="30"/>
253 </xsd:complexType>
254 <xsd:complexType name="CT_View3D">
255   <xsd:sequence>
256     <xsd:element name="rotX" type="CT_RotX" minOccurs="0" maxOccurs="1"/>
257     <xsd:element name="hPercent" type="CT_HPercent" minOccurs="0" maxOccurs="1"/>

```

```

258     <xsd:element name="rotY" type="CT_RotY" minOccurs="0" maxOccurs="1"/>
259     <xsd:element name="depthPercent" type="CT_DepthPercent" minOccurs="0" maxOccurs="1"/>
260     <xsd:element name="rAngAx" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
261     <xsd:element name="perspective" type="CT_Perspective" minOccurs="0" maxOccurs="1"/>
262     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
263   </xsd:sequence>
264 </xsd:complexType>
265 <xsd:complexType name="CT_Surface">
266   <xsd:sequence>
267     <xsd:element name="thickness" type="CT_Thickness" minOccurs="0" maxOccurs="1"/>
268     <xsd:element name="spPr" type="a:CT_ShapeProperties" minOccurs="0" maxOccurs="1"/>
269     <xsd:element name="pictureOptions" type="CT_PictureOptions" minOccurs="0" maxOccurs="1"/>
270     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
271   </xsd:sequence>
272 </xsd:complexType>
273 <xsd:simpleType name="ST_Thickness">
274   <xsd:union memberTypes="ST_ThicknessPercent xsd:unsignedInt"/>
275 </xsd:simpleType>
276 <xsd:simpleType name="ST_ThicknessPercent">
277   <xsd:restriction base="xsd:string">
278     <xsd:pattern value="([0-9]+)%"/>
279   </xsd:restriction>
280 </xsd:simpleType>
281 <xsd:complexType name="CT_Thickness">
282   <xsd:attribute name="val" type="ST_Thickness" use="required"/>
283 </xsd:complexType>
284 <xsd:complexType name="CT_DTable">
285   <xsd:sequence>
286     <xsd:element name="showHorzBorder" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
287     <xsd:element name="showVertBorder" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
288     <xsd:element name="showOutline" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
289     <xsd:element name="showKeys" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
290     <xsd:element name="spPr" type="a:CT_ShapeProperties" minOccurs="0" maxOccurs="1"/>
291     <xsd:element name="txPr" type="a:CT_TextBody" minOccurs="0" maxOccurs="1"/>
292     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
293   </xsd:sequence>
294 </xsd:complexType>
295 <xsd:simpleType name="ST_GapAmount">
296   <xsd:union memberTypes="ST_GapAmountPercent ST_GapAmountUShort"/>
297 </xsd:simpleType>
298 <xsd:simpleType name="ST_GapAmountPercent">
299   <xsd:restriction base="xsd:string">
300     <xsd:pattern value="0*([0-9])|([1-9][0-9])|([1-4][0-9][0-9])|500)%"/>
301   </xsd:restriction>
302 </xsd:simpleType>
303 <xsd:simpleType name="ST_GapAmountUShort">
304   <xsd:restriction base="xsd:unsignedShort">
305     <xsd:minInclusive value="0"/>
306     <xsd:maxInclusive value="500"/>
307   </xsd:restriction>
308 </xsd:simpleType>
309 <xsd:complexType name="CT_GapAmount">
310   <xsd:attribute name="val" type="ST_GapAmount" default="150%"/>

```

```

311 </xsd:complexType>
312 <xsd:simpleType name="ST_Overlap">
313   <xsd:union memberTypes="ST_OverlapPercent ST_OverlapByte"/>
314 </xsd:simpleType>
315 <xsd:simpleType name="ST_OverlapPercent">
316   <xsd:restriction base="xsd:string">
317     <xsd:pattern value="(-?0*([0-9])|([1-9][0-9])|100)%"/>
318   </xsd:restriction>
319 </xsd:simpleType>
320 <xsd:simpleType name="ST_OverlapByte">
321   <xsd:restriction base="xsd:byte">
322     <xsd:minInclusive value="-100"/>
323     <xsd:maxInclusive value="100"/>
324   </xsd:restriction>
325 </xsd:simpleType>
326 <xsd:complexType name="CT_Overlap">
327   <xsd:attribute name="val" type="ST_Overlap" default="0%"/>
328 </xsd:complexType>
329 <xsd:simpleType name="ST_BubbleScale">
330   <xsd:union memberTypes="ST_BubbleScalePercent ST_BubbleScaleUInt"/>
331 </xsd:simpleType>
332 <xsd:simpleType name="ST_BubbleScalePercent">
333   <xsd:restriction base="xsd:string">
334     <xsd:pattern value="0*([0-9])|([1-9][0-9])|([1-2][0-9][0-9])|300)%"/>
335   </xsd:restriction>
336 </xsd:simpleType>
337 <xsd:simpleType name="ST_BubbleScaleUInt">
338   <xsd:restriction base="xsd:unsignedInt">
339     <xsd:minInclusive value="0"/>
340     <xsd:maxInclusive value="300"/>
341   </xsd:restriction>
342 </xsd:simpleType>
343 <xsd:complexType name="CT_BubbleScale">
344   <xsd:attribute name="val" type="ST_BubbleScale" default="100%"/>
345 </xsd:complexType>
346 <xsd:simpleType name="ST_SizeRepresents">
347   <xsd:restriction base="xsd:string">
348     <xsd:enumeration value="area"/>
349     <xsd:enumeration value="w"/>
350   </xsd:restriction>
351 </xsd:simpleType>
352 <xsd:complexType name="CT_SizeRepresents">
353   <xsd:attribute name="val" type="ST_SizeRepresents" default="area"/>
354 </xsd:complexType>
355 <xsd:simpleType name="ST_FirstSliceAng">
356   <xsd:restriction base="xsd:unsignedShort">
357     <xsd:minInclusive value="0"/>
358     <xsd:maxInclusive value="360"/>
359   </xsd:restriction>
360 </xsd:simpleType>
361 <xsd:complexType name="CT_FirstSliceAng">
362   <xsd:attribute name="val" type="ST_FirstSliceAng" default="0"/>
363 </xsd:complexType>

```

```

364 <xsd:simpleType name="ST_HoleSize">
365   <xsd:union memberTypes="ST_HoleSizePercent ST_HoleSizeUByte"/>
366 </xsd:simpleType>
367 <xsd:simpleType name="ST_HoleSizePercent">
368   <xsd:restriction base="xsd:string">
369     <xsd:pattern value="0*([1-9]|([1-8][0-9])|90)%"/>
370   </xsd:restriction>
371 </xsd:simpleType>
372 <xsd:simpleType name="ST_HoleSizeUByte">
373   <xsd:restriction base="xsd:unsignedByte">
374     <xsd:minInclusive value="10"/>
375     <xsd:maxInclusive value="90"/>
376   </xsd:restriction>
377 </xsd:simpleType>
378 <xsd:complexType name="CT_HoleSize">
379   <xsd:attribute name="val" type="ST_HoleSize" default="10%"/>
380 </xsd:complexType>
381 <xsd:simpleType name="ST_SplitType">
382   <xsd:restriction base="xsd:string">
383     <xsd:enumeration value="auto"/>
384     <xsd:enumeration value="cust"/>
385     <xsd:enumeration value="percent"/>
386     <xsd:enumeration value="pos"/>
387     <xsd:enumeration value="val"/>
388   </xsd:restriction>
389 </xsd:simpleType>
390 <xsd:complexType name="CT_SplitType">
391   <xsd:attribute name="val" type="ST_SplitType" default="auto"/>
392 </xsd:complexType>
393 <xsd:complexType name="CT_CustSplit">
394   <xsd:sequence>
395     <xsd:element name="secondPiePt" type="CT_UnsignedInt" minOccurs="0"
396       maxOccurs="unbounded"/>
397   </xsd:sequence>
398 </xsd:complexType>
399 <xsd:simpleType name="ST_SecondPieSize">
400   <xsd:union memberTypes="ST_SecondPieSizePercent ST_SecondPieSizeUShort"/>
401 </xsd:simpleType>
402 <xsd:simpleType name="ST_SecondPieSizePercent">
403   <xsd:restriction base="xsd:string">
404     <xsd:pattern value="0*(([5-9])|([1-9][0-9])|(1[0-9][0-9])|200)%"/>
405   </xsd:restriction>
406 </xsd:simpleType>
407 <xsd:simpleType name="ST_SecondPieSizeUShort">
408   <xsd:restriction base="xsd:unsignedShort">
409     <xsd:minInclusive value="5"/>
410     <xsd:maxInclusive value="200"/>
411   </xsd:restriction>
412 </xsd:simpleType>
413 <xsd:complexType name="CT_SecondPieSize">
414   <xsd:attribute name="val" type="ST_SecondPieSize" default="75%"/>
415 </xsd:complexType>
416 <xsd:complexType name="CT_NumFmt">

```



```

417     <xsd:attribute name="formatCode" type="s:ST_Xstring" use="required"/>
418     <xsd:attribute name="sourceLinked" type="xsd:boolean"/>
419 </xsd:complexType>
420 <xsd:simpleType name="ST_LblAlign">
421     <xsd:restriction base="xsd:string">
422         <xsd:enumeration value="ctr"/>
423         <xsd:enumeration value="l"/>
424         <xsd:enumeration value="r"/>
425     </xsd:restriction>
426 </xsd:simpleType>
427 <xsd:complexType name="CT_LblAlign">
428     <xsd:attribute name="val" type="ST_LblAlign" use="required"/>
429 </xsd:complexType>
430 <xsd:simpleType name="ST_DLblPos">
431     <xsd:restriction base="xsd:string">
432         <xsd:enumeration value="bestFit"/>
433         <xsd:enumeration value="b"/>
434         <xsd:enumeration value="ctr"/>
435         <xsd:enumeration value="inBase"/>
436         <xsd:enumeration value="inEnd"/>
437         <xsd:enumeration value="l"/>
438         <xsd:enumeration value="outEnd"/>
439         <xsd:enumeration value="r"/>
440         <xsd:enumeration value="t"/>
441     </xsd:restriction>
442 </xsd:simpleType>
443 <xsd:complexType name="CT_DLblPos">
444     <xsd:attribute name="val" type="ST_DLblPos" use="required"/>
445 </xsd:complexType>
446 <xsd:group name="EG_DLblShared">
447     <xsd:sequence>
448         <xsd:element name="numFmt" type="CT_NumFmt" minOccurs="0" maxOccurs="1"/>
449         <xsd:element name="spPr" type="a:CT_ShapeProperties" minOccurs="0" maxOccurs="1"/>
450         <xsd:element name="txPr" type="a:CT_TextBody" minOccurs="0" maxOccurs="1"/>
451         <xsd:element name="dLblPos" type="CT_DLblPos" minOccurs="0" maxOccurs="1"/>
452         <xsd:element name="showLegendKey" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
453         <xsd:element name="showVal" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
454         <xsd:element name="showCatName" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
455         <xsd:element name="showSerName" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
456         <xsd:element name="showPercent" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
457         <xsd:element name="showBubbleSize" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
458         <xsd:element name="separator" type="xsd:string" minOccurs="0" maxOccurs="1"/>
459     </xsd:sequence>
460 </xsd:group>
461 <xsd:group name="Group_DLbl">
462     <xsd:sequence>
463         <xsd:element name="layout" type="CT_Layout" minOccurs="0" maxOccurs="1"/>
464         <xsd:element name="tx" type="CT_Tx" minOccurs="0" maxOccurs="1"/>
465         <xsd:group ref="EG_DLblShared" minOccurs="1" maxOccurs="1"/>
466     </xsd:sequence>
467 </xsd:group>
468 <xsd:complexType name="CT_DLbl">
469     <xsd:sequence>

```



```

470     <xsd:element name="idx" type="CT UnsignedInt" minOccurs="1" maxOccurs="1"/>
471     <xsd:choice>
472         <xsd:element name="delete" type="CT Boolean" minOccurs="1" maxOccurs="1"/>
473         <xsd:group ref="Group_DLbl" minOccurs="1" maxOccurs="1"/>
474     </xsd:choice>
475     <xsd:element name="extLst" type="CT ExtensionList" minOccurs="0" maxOccurs="1"/>
476 </xsd:sequence>
477 </xsd:complexType>
478 <xsd:group name="Group_DLbls">
479     <xsd:sequence>
480         <xsd:group ref="EG_DLblShared" minOccurs="1" maxOccurs="1"/>
481         <xsd:element name="showLeaderLines" type="CT Boolean" minOccurs="0" maxOccurs="1"/>
482         <xsd:element name="leaderLines" type="CT ChartLines" minOccurs="0" maxOccurs="1"/>
483     </xsd:sequence>
484 </xsd:group>
485 <xsd:complexType name="CT_DLbls">
486     <xsd:sequence>
487         <xsd:element name="dLbl" type="CT DLbl" minOccurs="0" maxOccurs="unbounded"/>
488         <xsd:choice>
489             <xsd:element name="delete" type="CT Boolean" minOccurs="1" maxOccurs="1"/>
490             <xsd:group ref="Group_DLbls" minOccurs="1" maxOccurs="1"/>
491         </xsd:choice>
492         <xsd:element name="extLst" type="CT ExtensionList" minOccurs="0" maxOccurs="1"/>
493     </xsd:sequence>
494 </xsd:complexType>
495 <xsd:simpleType name="ST_MarkerStyle">
496     <xsd:restriction base="xsd:string">
497         <xsd:enumeration value="circle"/>
498         <xsd:enumeration value="dash"/>
499         <xsd:enumeration value="diamond"/>
500         <xsd:enumeration value="dot"/>
501         <xsd:enumeration value="none"/>
502         <xsd:enumeration value="picture"/>
503         <xsd:enumeration value="plus"/>
504         <xsd:enumeration value="square"/>
505         <xsd:enumeration value="star"/>
506         <xsd:enumeration value="triangle"/>
507         <xsd:enumeration value="x"/>
508         <xsd:enumeration value="auto"/>
509     </xsd:restriction>
510 </xsd:simpleType>
511 <xsd:complexType name="CT_MarkerStyle">
512     <xsd:attribute name="val" type="ST_MarkerStyle" use="required"/>
513 </xsd:complexType>
514 <xsd:simpleType name="ST_MarkerSize">
515     <xsd:restriction base="xsd:unsignedByte">
516         <xsd:minInclusive value="2"/>
517         <xsd:maxInclusive value="72"/>
518     </xsd:restriction>
519 </xsd:simpleType>
520 <xsd:complexType name="CT_MarkerSize">
521     <xsd:attribute name="val" type="ST_MarkerSize" default="5"/>
522 </xsd:complexType>

```

```

523 <xsd:complexType name="CT_Marker">
524   <xsd:sequence>
525     <xsd:element name="symbol" type="CT_MarkerStyle" minOccurs="0" maxOccurs="1"/>
526     <xsd:element name="size" type="CT_MarkerSize" minOccurs="0" maxOccurs="1"/>
527     <xsd:element name="spPr" type="a:CT_ShapeProperties" minOccurs="0" maxOccurs="1"/>
528     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
529   </xsd:sequence>
530 </xsd:complexType>
531 <xsd:complexType name="CT_DPt">
532   <xsd:sequence>
533     <xsd:element name="idx" type="CT_UnsignedInt" minOccurs="1" maxOccurs="1"/>
534     <xsd:element name="invertIfNegative" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
535     <xsd:element name="marker" type="CT_Marker" minOccurs="0" maxOccurs="1"/>
536     <xsd:element name="bubble3D" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
537     <xsd:element name="explosion" type="CT_UnsignedInt" minOccurs="0" maxOccurs="1"/>
538     <xsd:element name="spPr" type="a:CT_ShapeProperties" minOccurs="0" maxOccurs="1"/>
539     <xsd:element name="pictureOptions" type="CT_PictureOptions" minOccurs="0" maxOccurs="1"/>
540     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
541   </xsd:sequence>
542 </xsd:complexType>
543 <xsd:simpleType name="ST_TrendlineType">
544   <xsd:restriction base="xsd:string">
545     <xsd:enumeration value="exp"/>
546     <xsd:enumeration value="linear"/>
547     <xsd:enumeration value="log"/>
548     <xsd:enumeration value="movingAvg"/>
549     <xsd:enumeration value="poly"/>
550     <xsd:enumeration value="power"/>
551   </xsd:restriction>
552 </xsd:simpleType>
553 <xsd:complexType name="CT_TrendlineType">
554   <xsd:attribute name="val" type="ST_TrendlineType" default="linear"/>
555 </xsd:complexType>
556 <xsd:simpleType name="ST_Order">
557   <xsd:restriction base="xsd:unsignedByte">
558     <xsd:minInclusive value="2"/>
559     <xsd:maxInclusive value="6"/>
560   </xsd:restriction>
561 </xsd:simpleType>
562 <xsd:complexType name="CT_Order">
563   <xsd:attribute name="val" type="ST_Order" default="2"/>
564 </xsd:complexType>
565 <xsd:simpleType name="ST_Period">
566   <xsd:restriction base="xsd:unsignedInt">
567     <xsd:minInclusive value="2"/>
568   </xsd:restriction>
569 </xsd:simpleType>
570 <xsd:complexType name="CT_Period">
571   <xsd:attribute name="val" type="ST_Period" default="2"/>
572 </xsd:complexType>
573 <xsd:complexType name="CT_TrendlineLbl">
574   <xsd:sequence>
575     <xsd:element name="layout" type="CT_Layout" minOccurs="0" maxOccurs="1"/>

```

```

576     <xsd:element name="tx" type="CT Tx" minOccurs="0" maxOccurs="1"/>
577     <xsd:element name="numFmt" type="CT NumFmt" minOccurs="0" maxOccurs="1"/>
578     <xsd:element name="spPr" type="a:CT ShapeProperties" minOccurs="0" maxOccurs="1"/>
579     <xsd:element name="txPr" type="a:CT TextBody" minOccurs="0" maxOccurs="1"/>
580     <xsd:element name="extLst" type="CT ExtensionList" minOccurs="0" maxOccurs="1"/>
581   </xsd:sequence>
582 </xsd:complexType>
583 <xsd:complexType name="CT_Trendline">
584   <xsd:sequence>
585     <xsd:element name="name" type="xsd:string" minOccurs="0" maxOccurs="1"/>
586     <xsd:element name="spPr" type="a:CT ShapeProperties" minOccurs="0" maxOccurs="1"/>
587     <xsd:element name="trendlineType" type="CT TrendlineType" minOccurs="1" maxOccurs="1"/>
588     <xsd:element name="order" type="CT Order" minOccurs="0" maxOccurs="1"/>
589     <xsd:element name="period" type="CT Period" minOccurs="0" maxOccurs="1"/>
590     <xsd:element name="forward" type="CT Double" minOccurs="0" maxOccurs="1"/>
591     <xsd:element name="backward" type="CT Double" minOccurs="0" maxOccurs="1"/>
592     <xsd:element name="intercept" type="CT Double" minOccurs="0" maxOccurs="1"/>
593     <xsd:element name="dispRSqr" type="CT Boolean" minOccurs="0" maxOccurs="1"/>
594     <xsd:element name="dispEq" type="CT Boolean" minOccurs="0" maxOccurs="1"/>
595     <xsd:element name="trendlineLbl" type="CT TrendlineLbl" minOccurs="0" maxOccurs="1"/>
596     <xsd:element name="extLst" type="CT ExtensionList" minOccurs="0" maxOccurs="1"/>
597   </xsd:sequence>
598 </xsd:complexType>
599 <xsd:simpleType name="ST_ErrDir">
600   <xsd:restriction base="xsd:string">
601     <xsd:enumeration value="x"/>
602     <xsd:enumeration value="y"/>
603   </xsd:restriction>
604 </xsd:simpleType>
605 <xsd:complexType name="CT_ErrDir">
606   <xsd:attribute name="val" type="ST_ErrDir" use="required"/>
607 </xsd:complexType>
608 <xsd:simpleType name="ST_ErrBarType">
609   <xsd:restriction base="xsd:string">
610     <xsd:enumeration value="both"/>
611     <xsd:enumeration value="minus"/>
612     <xsd:enumeration value="plus"/>
613   </xsd:restriction>
614 </xsd:simpleType>
615 <xsd:complexType name="CT_ErrBarType">
616   <xsd:attribute name="val" type="ST_ErrBarType" default="both"/>
617 </xsd:complexType>
618 <xsd:simpleType name="ST_ErrValType">
619   <xsd:restriction base="xsd:string">
620     <xsd:enumeration value="cust"/>
621     <xsd:enumeration value="fixedVal"/>
622     <xsd:enumeration value="percentage"/>
623     <xsd:enumeration value="stdDev"/>
624     <xsd:enumeration value="stdErr"/>
625   </xsd:restriction>
626 </xsd:simpleType>
627 <xsd:complexType name="CT_ErrValType">
628   <xsd:attribute name="val" type="ST_ErrValType" default="fixedVal"/>

```

```

629 </xsd:complexType>
630 <xsd:complexType name="CT_ErrBars">
631   <xsd:sequence>
632     <xsd:element name="errDir" type="CT_ErrDir" minOccurs="0" maxOccurs="1"/>
633     <xsd:element name="errBarType" type="CT_ErrBarType" minOccurs="1" maxOccurs="1"/>
634     <xsd:element name="errValType" type="CT_ErrValType" minOccurs="1" maxOccurs="1"/>
635     <xsd:element name="noEndCap" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
636     <xsd:element name="plus" type="CT_NumDataSource" minOccurs="0" maxOccurs="1"/>
637     <xsd:element name="minus" type="CT_NumDataSource" minOccurs="0" maxOccurs="1"/>
638     <xsd:element name="val" type="CT_Double" minOccurs="0" maxOccurs="1"/>
639     <xsd:element name="spPr" type="a:CT_ShapeProperties" minOccurs="0" maxOccurs="1"/>
640     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
641   </xsd:sequence>
642 </xsd:complexType>
643 <xsd:complexType name="CT_UpDownBar">
644   <xsd:sequence>
645     <xsd:element name="spPr" type="a:CT_ShapeProperties" minOccurs="0" maxOccurs="1"/>
646   </xsd:sequence>
647 </xsd:complexType>
648 <xsd:complexType name="CT_UpDownBars">
649   <xsd:sequence>
650     <xsd:element name="gapWidth" type="CT_GapAmount" minOccurs="0" maxOccurs="1"/>
651     <xsd:element name="upBars" type="CT_UpDownBar" minOccurs="0" maxOccurs="1"/>
652     <xsd:element name="downBars" type="CT_UpDownBar" minOccurs="0" maxOccurs="1"/>
653     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
654   </xsd:sequence>
655 </xsd:complexType>
656 <xsd:group name="EG_SerShared">
657   <xsd:sequence>
658     <xsd:element name="idx" type="CT_UnsignedInt" minOccurs="1" maxOccurs="1"/>
659     <xsd:element name="order" type="CT_UnsignedInt" minOccurs="1" maxOccurs="1"/>
660     <xsd:element name="tx" type="CT_SerTx" minOccurs="0" maxOccurs="1"/>
661     <xsd:element name="spPr" type="a:CT_ShapeProperties" minOccurs="0" maxOccurs="1"/>
662   </xsd:sequence>
663 </xsd:group>
664 <xsd:complexType name="CT_LineSer">
665   <xsd:sequence>
666     <xsd:group ref="EG_SerShared" minOccurs="1" maxOccurs="1"/>
667     <xsd:element name="marker" type="CT_Marker" minOccurs="0" maxOccurs="1"/>
668     <xsd:element name="dPt" type="CT_DPt" minOccurs="0" maxOccurs="unbounded"/>
669     <xsd:element name="dLbls" type="CT_DLbls" minOccurs="0" maxOccurs="1"/>
670     <xsd:element name="trendline" type="CT_Trendline" minOccurs="0" maxOccurs="unbounded"/>
671     <xsd:element name="errBars" type="CT_ErrBars" minOccurs="0" maxOccurs="1"/>
672     <xsd:element name="cat" type="CT_AxDataSource" minOccurs="0" maxOccurs="1"/>
673     <xsd:element name="val" type="CT_NumDataSource" minOccurs="0" maxOccurs="1"/>
674     <xsd:element name="smooth" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
675     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
676   </xsd:sequence>
677 </xsd:complexType>
678 <xsd:complexType name="CT_ScatterSer">
679   <xsd:sequence>
680     <xsd:group ref="EG_SerShared" minOccurs="1" maxOccurs="1"/>
681     <xsd:element name="marker" type="CT_Marker" minOccurs="0" maxOccurs="1"/>

```

```

682     <xsd:element name="dPt" type="CT DPt" minOccurs="0" maxOccurs="unbounded"/>
683     <xsd:element name="dLbls" type="CT DLbls" minOccurs="0" maxOccurs="1"/>
684     <xsd:element name="trendline" type="CT Trendline" minOccurs="0" maxOccurs="unbounded"/>
685     <xsd:element name="errBars" type="CT ErrBars" minOccurs="0" maxOccurs="2"/>
686     <xsd:element name="xVal" type="CT AxDataSource" minOccurs="0" maxOccurs="1"/>
687     <xsd:element name="yVal" type="CT NumDataSource" minOccurs="0" maxOccurs="1"/>
688     <xsd:element name="smooth" type="CT Boolean" minOccurs="0" maxOccurs="1"/>
689     <xsd:element name="extLst" type="CT ExtensionList" minOccurs="0" maxOccurs="1"/>
690   </xsd:sequence>
691 </xsd:complexType>
692 <xsd:complexType name="CT_RadarSer">
693   <xsd:sequence>
694     <xsd:group ref="EG SerShared" minOccurs="1" maxOccurs="1"/>
695     <xsd:element name="marker" type="CT Marker" minOccurs="0" maxOccurs="1"/>
696     <xsd:element name="dPt" type="CT DPt" minOccurs="0" maxOccurs="unbounded"/>
697     <xsd:element name="dLbls" type="CT DLbls" minOccurs="0" maxOccurs="1"/>
698     <xsd:element name="cat" type="CT AxDataSource" minOccurs="0" maxOccurs="1"/>
699     <xsd:element name="val" type="CT NumDataSource" minOccurs="0" maxOccurs="1"/>
700     <xsd:element name="extLst" type="CT ExtensionList" minOccurs="0" maxOccurs="1"/>
701   </xsd:sequence>
702 </xsd:complexType>
703 <xsd:complexType name="CT_BarSer">
704   <xsd:sequence>
705     <xsd:group ref="EG SerShared" minOccurs="1" maxOccurs="1"/>
706     <xsd:element name="invertIfNegative" type="CT Boolean" minOccurs="0" maxOccurs="1"/>
707     <xsd:element name="pictureOptions" type="CT PictureOptions" minOccurs="0" maxOccurs="1"/>
708     <xsd:element name="dPt" type="CT DPt" minOccurs="0" maxOccurs="unbounded"/>
709     <xsd:element name="dLbls" type="CT DLbls" minOccurs="0" maxOccurs="1"/>
710     <xsd:element name="trendline" type="CT Trendline" minOccurs="0" maxOccurs="unbounded"/>
711     <xsd:element name="errBars" type="CT ErrBars" minOccurs="0" maxOccurs="1"/>
712     <xsd:element name="cat" type="CT AxDataSource" minOccurs="0" maxOccurs="1"/>
713     <xsd:element name="val" type="CT NumDataSource" minOccurs="0" maxOccurs="1"/>
714     <xsd:element name="shape" type="CT Shape" minOccurs="0" maxOccurs="1"/>
715     <xsd:element name="extLst" type="CT ExtensionList" minOccurs="0" maxOccurs="1"/>
716   </xsd:sequence>
717 </xsd:complexType>
718 <xsd:complexType name="CT_AreaSer">
719   <xsd:sequence>
720     <xsd:group ref="EG SerShared" minOccurs="1" maxOccurs="1"/>
721     <xsd:element name="pictureOptions" type="CT PictureOptions" minOccurs="0" maxOccurs="1"/>
722     <xsd:element name="dPt" type="CT DPt" minOccurs="0" maxOccurs="unbounded"/>
723     <xsd:element name="dLbls" type="CT DLbls" minOccurs="0" maxOccurs="1"/>
724     <xsd:element name="trendline" type="CT Trendline" minOccurs="0" maxOccurs="unbounded"/>
725     <xsd:element name="errBars" type="CT ErrBars" minOccurs="0" maxOccurs="2"/>
726     <xsd:element name="cat" type="CT AxDataSource" minOccurs="0" maxOccurs="1"/>
727     <xsd:element name="val" type="CT NumDataSource" minOccurs="0" maxOccurs="1"/>
728     <xsd:element name="extLst" type="CT ExtensionList" minOccurs="0" maxOccurs="1"/>
729   </xsd:sequence>
730 </xsd:complexType>
731 <xsd:complexType name="CT_PieSer">
732   <xsd:sequence>
733     <xsd:group ref="EG SerShared" minOccurs="1" maxOccurs="1"/>
734     <xsd:element name="explosion" type="CT UnsignedInt" minOccurs="0" maxOccurs="1"/>

```

```

735     <xsd:element name="dPt" type="CT DPt" minOccurs="0" maxOccurs="unbounded"/>
736     <xsd:element name="dLbls" type="CT DLbls" minOccurs="0" maxOccurs="1"/>
737     <xsd:element name="cat" type="CT AxDataSource" minOccurs="0" maxOccurs="1"/>
738     <xsd:element name="val" type="CT NumDataSource" minOccurs="0" maxOccurs="1"/>
739     <xsd:element name="extLst" type="CT ExtensionList" minOccurs="0" maxOccurs="1"/>
740   </xsd:sequence>
741 </xsd:complexType>
742 <xsd:complexType name="CT_BubbleSer">
743   <xsd:sequence>
744     <xsd:group ref="EG SerShared" minOccurs="1" maxOccurs="1"/>
745     <xsd:element name="invertIfNegative" type="CT Boolean" minOccurs="0" maxOccurs="1"/>
746     <xsd:element name="dPt" type="CT DPt" minOccurs="0" maxOccurs="unbounded"/>
747     <xsd:element name="dLbls" type="CT DLbls" minOccurs="0" maxOccurs="1"/>
748     <xsd:element name="trendline" type="CT Trendline" minOccurs="0" maxOccurs="unbounded"/>
749     <xsd:element name="errBars" type="CT ErrBars" minOccurs="0" maxOccurs="2"/>
750     <xsd:element name="xVal" type="CT AxDataSource" minOccurs="0" maxOccurs="1"/>
751     <xsd:element name="yVal" type="CT NumDataSource" minOccurs="0" maxOccurs="1"/>
752     <xsd:element name="bubbleSize" type="CT NumDataSource" minOccurs="0" maxOccurs="1"/>
753     <xsd:element name="bubble3D" type="CT Boolean" minOccurs="0" maxOccurs="1"/>
754     <xsd:element name="extLst" type="CT ExtensionList" minOccurs="0" maxOccurs="1"/>
755   </xsd:sequence>
756 </xsd:complexType>
757 <xsd:complexType name="CT_SurfaceSer">
758   <xsd:sequence>
759     <xsd:group ref="EG SerShared" minOccurs="1" maxOccurs="1"/>
760     <xsd:element name="cat" type="CT AxDataSource" minOccurs="0" maxOccurs="1"/>
761     <xsd:element name="val" type="CT NumDataSource" minOccurs="0" maxOccurs="1"/>
762     <xsd:element name="extLst" type="CT ExtensionList" minOccurs="0" maxOccurs="1"/>
763   </xsd:sequence>
764 </xsd:complexType>
765 <xsd:simpleType name="ST_Grouping">
766   <xsd:restriction base="xsd:string">
767     <xsd:enumeration value="percentStacked"/>
768     <xsd:enumeration value="standard"/>
769     <xsd:enumeration value="stacked"/>
770   </xsd:restriction>
771 </xsd:simpleType>
772 <xsd:complexType name="CT_Grouping">
773   <xsd:attribute name="val" type="ST_Grouping" default="standard"/>
774 </xsd:complexType>
775 <xsd:complexType name="CT_ChartLines">
776   <xsd:sequence>
777     <xsd:element name="spPr" type="a:CT ShapeProperties" minOccurs="0" maxOccurs="1"/>
778   </xsd:sequence>
779 </xsd:complexType>
780 <xsd:group name="EG_LineChartShared">
781   <xsd:sequence>
782     <xsd:element name="grouping" type="CT_Grouping" minOccurs="1" maxOccurs="1"/>
783     <xsd:element name="varyColors" type="CT Boolean" minOccurs="0" maxOccurs="1"/>
784     <xsd:element name="ser" type="CT LineSer" minOccurs="0" maxOccurs="unbounded"/>
785     <xsd:element name="dLbls" type="CT DLbls" minOccurs="0" maxOccurs="1"/>
786     <xsd:element name="dropLines" type="CT_ChartLines" minOccurs="0" maxOccurs="1"/>
787   </xsd:sequence>

```



```

788 </xsd:group>
789 <xsd:complexType name="CT_LineChart">
790   <xsd:sequence>
791     <xsd:group ref="EG_LineChartShared" minOccurs="1" maxOccurs="1"/>
792     <xsd:element name="hiLowLines" type="CT_ChartLines" minOccurs="0" maxOccurs="1"/>
793     <xsd:element name="upDownBars" type="CT_UpDownBars" minOccurs="0" maxOccurs="1"/>
794     <xsd:element name="marker" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
795     <xsd:element name="smooth" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
796     <xsd:element name="axId" type="CT_UnsignedInt" minOccurs="2" maxOccurs="2"/>
797     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
798   </xsd:sequence>
799 </xsd:complexType>
800 <xsd:complexType name="CT_Line3DChart">
801   <xsd:sequence>
802     <xsd:group ref="EG_LineChartShared" minOccurs="1" maxOccurs="1"/>
803     <xsd:element name="gapDepth" type="CT_GapAmount" minOccurs="0" maxOccurs="1"/>
804     <xsd:element name="axId" type="CT_UnsignedInt" minOccurs="3" maxOccurs="3"/>
805     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
806   </xsd:sequence>
807 </xsd:complexType>
808 <xsd:complexType name="CT_StockChart">
809   <xsd:sequence>
810     <xsd:element name="ser" type="CT_LineSer" minOccurs="3" maxOccurs="4"/>
811     <xsd:element name="dLbls" type="CT_DLbls" minOccurs="0" maxOccurs="1"/>
812     <xsd:element name="dropLines" type="CT_ChartLines" minOccurs="0" maxOccurs="1"/>
813     <xsd:element name="hiLowLines" type="CT_ChartLines" minOccurs="0" maxOccurs="1"/>
814     <xsd:element name="upDownBars" type="CT_UpDownBars" minOccurs="0" maxOccurs="1"/>
815     <xsd:element name="axId" type="CT_UnsignedInt" minOccurs="2" maxOccurs="2"/>
816     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
817   </xsd:sequence>
818 </xsd:complexType>
819 <xsd:simpleType name="ST_ScatterStyle">
820   <xsd:restriction base="xsd:string">
821     <xsd:enumeration value="none"/>
822     <xsd:enumeration value="line"/>
823     <xsd:enumeration value="lineMarker"/>
824     <xsd:enumeration value="marker"/>
825     <xsd:enumeration value="smooth"/>
826     <xsd:enumeration value="smoothMarker"/>
827   </xsd:restriction>
828 </xsd:simpleType>
829 <xsd:complexType name="CT_ScatterStyle">
830   <xsd:attribute name="val" type="ST_ScatterStyle" default="marker"/>
831 </xsd:complexType>
832 <xsd:complexType name="CT_ScatterChart">
833   <xsd:sequence>
834     <xsd:element name="scatterStyle" type="CT_ScatterStyle" minOccurs="1" maxOccurs="1"/>
835     <xsd:element name="varyColors" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
836     <xsd:element name="ser" type="CT_ScatterSer" minOccurs="0" maxOccurs="unbounded"/>
837     <xsd:element name="dLbls" type="CT_DLbls" minOccurs="0" maxOccurs="1"/>
838     <xsd:element name="axId" type="CT_UnsignedInt" minOccurs="2" maxOccurs="2"/>
839     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
840   </xsd:sequence>

```

```

841 </xsd:complexType>
842 <xsd:simpleType name="ST_RadarStyle">
843   <xsd:restriction base="xsd:string">
844     <xsd:enumeration value="standard"/>
845     <xsd:enumeration value="marker"/>
846     <xsd:enumeration value="filled"/>
847   </xsd:restriction>
848 </xsd:simpleType>
849 <xsd:complexType name="CT_RadarStyle">
850   <xsd:attribute name="val" type="ST_RadarStyle" default="standard"/>
851 </xsd:complexType>
852 <xsd:complexType name="CT_RadarChart">
853   <xsd:sequence>
854     <xsd:element name="radarStyle" type="CT_RadarStyle" minOccurs="1" maxOccurs="1"/>
855     <xsd:element name="varyColors" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
856     <xsd:element name="ser" type="CT_RadarSer" minOccurs="0" maxOccurs="unbounded"/>
857     <xsd:element name="dLbls" type="CT_DLbls" minOccurs="0" maxOccurs="1"/>
858     <xsd:element name="axId" type="CT_UnsignedInt" minOccurs="2" maxOccurs="2"/>
859     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
860   </xsd:sequence>
861 </xsd:complexType>
862 <xsd:simpleType name="ST_BarGrouping">
863   <xsd:restriction base="xsd:string">
864     <xsd:enumeration value="percentStacked"/>
865     <xsd:enumeration value="clustered"/>
866     <xsd:enumeration value="standard"/>
867     <xsd:enumeration value="stacked"/>
868   </xsd:restriction>
869 </xsd:simpleType>
870 <xsd:complexType name="CT_BarGrouping">
871   <xsd:attribute name="val" type="ST_BarGrouping" default="clustered"/>
872 </xsd:complexType>
873 <xsd:simpleType name="ST_BarDir">
874   <xsd:restriction base="xsd:string">
875     <xsd:enumeration value="bar"/>
876     <xsd:enumeration value="col"/>
877   </xsd:restriction>
878 </xsd:simpleType>
879 <xsd:complexType name="CT_BarDir">
880   <xsd:attribute name="val" type="ST_BarDir" default="col"/>
881 </xsd:complexType>
882 <xsd:simpleType name="ST_Shape">
883   <xsd:restriction base="xsd:string">
884     <xsd:enumeration value="cone"/>
885     <xsd:enumeration value="coneToMax"/>
886     <xsd:enumeration value="box"/>
887     <xsd:enumeration value="cylinder"/>
888     <xsd:enumeration value="pyramid"/>
889     <xsd:enumeration value="pyramidToMax"/>
890   </xsd:restriction>
891 </xsd:simpleType>
892 <xsd:complexType name="CT_Shape">
893   <xsd:attribute name="val" type="ST_Shape" default="box"/>

```



```

894 </xsd:complexType>
895 <xsd:group name="EG_BarChartShared">
896   <xsd:sequence>
897     <xsd:element name="barDir" type="CT_BarDir" minOccurs="1" maxOccurs="1"/>
898     <xsd:element name="grouping" type="CT_BarGrouping" minOccurs="0" maxOccurs="1"/>
899     <xsd:element name="varyColors" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
900     <xsd:element name="ser" type="CT_BarSer" minOccurs="0" maxOccurs="unbounded"/>
901     <xsd:element name="dLbls" type="CT_DLbls" minOccurs="0" maxOccurs="1"/>
902   </xsd:sequence>
903 </xsd:group>
904 <xsd:complexType name="CT_BarChart">
905   <xsd:sequence>
906     <xsd:group ref="EG_BarChartShared" minOccurs="1" maxOccurs="1"/>
907     <xsd:element name="gapWidth" type="CT_GapAmount" minOccurs="0" maxOccurs="1"/>
908     <xsd:element name="overlap" type="CT_Overlap" minOccurs="0" maxOccurs="1"/>
909     <xsd:element name="serLines" type="CT_ChartLines" minOccurs="0" maxOccurs="unbounded"/>
910     <xsd:element name="axId" type="CT_UnsignedInt" minOccurs="2" maxOccurs="2"/>
911     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
912   </xsd:sequence>
913 </xsd:complexType>
914 <xsd:complexType name="CT_Bar3DChart">
915   <xsd:sequence>
916     <xsd:group ref="EG_BarChartShared" minOccurs="1" maxOccurs="1"/>
917     <xsd:element name="gapWidth" type="CT_GapAmount" minOccurs="0" maxOccurs="1"/>
918     <xsd:element name="gapDepth" type="CT_GapAmount" minOccurs="0" maxOccurs="1"/>
919     <xsd:element name="shape" type="CT_Shape" minOccurs="0" maxOccurs="1"/>
920     <xsd:element name="axId" type="CT_UnsignedInt" minOccurs="2" maxOccurs="3"/>
921     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
922   </xsd:sequence>
923 </xsd:complexType>
924 <xsd:group name="EG_AreaChartShared">
925   <xsd:sequence>
926     <xsd:element name="grouping" type="CT_Grouping" minOccurs="0" maxOccurs="1"/>
927     <xsd:element name="varyColors" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
928     <xsd:element name="ser" type="CT_AreaSer" minOccurs="0" maxOccurs="unbounded"/>
929     <xsd:element name="dLbls" type="CT_DLbls" minOccurs="0" maxOccurs="1"/>
930     <xsd:element name="dropLines" type="CT_ChartLines" minOccurs="0" maxOccurs="1"/>
931   </xsd:sequence>
932 </xsd:group>
933 <xsd:complexType name="CT_AreaChart">
934   <xsd:sequence>
935     <xsd:group ref="EG_AreaChartShared" minOccurs="1" maxOccurs="1"/>
936     <xsd:element name="axId" type="CT_UnsignedInt" minOccurs="2" maxOccurs="2"/>
937     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
938   </xsd:sequence>
939 </xsd:complexType>
940 <xsd:complexType name="CT_Area3DChart">
941   <xsd:sequence>
942     <xsd:group ref="EG_AreaChartShared" minOccurs="1" maxOccurs="1"/>
943     <xsd:element name="gapDepth" type="CT_GapAmount" minOccurs="0" maxOccurs="1"/>
944     <xsd:element name="axId" type="CT_UnsignedInt" minOccurs="2" maxOccurs="3"/>
945     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
946   </xsd:sequence>

```

```

947 </xsd:complexType>
948 <xsd:group name="EG_PieChartShared">
949   <xsd:sequence>
950     <xsd:element name="varyColors" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
951     <xsd:element name="ser" type="CT_PieSer" minOccurs="0" maxOccurs="unbounded"/>
952     <xsd:element name="dLbls" type="CT_DLbls" minOccurs="0" maxOccurs="1"/>
953   </xsd:sequence>
954 </xsd:group>
955 <xsd:complexType name="CT_PieChart">
956   <xsd:sequence>
957     <xsd:group ref="EG_PieChartShared" minOccurs="1" maxOccurs="1"/>
958     <xsd:element name="firstSliceAng" type="CT_FirstSliceAng" minOccurs="0" maxOccurs="1"/>
959     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
960   </xsd:sequence>
961 </xsd:complexType>
962 <xsd:complexType name="CT_Pie3DChart">
963   <xsd:sequence>
964     <xsd:group ref="EG_PieChartShared" minOccurs="1" maxOccurs="1"/>
965     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
966   </xsd:sequence>
967 </xsd:complexType>
968 <xsd:complexType name="CT_DoughnutChart">
969   <xsd:sequence>
970     <xsd:group ref="EG_PieChartShared" minOccurs="1" maxOccurs="1"/>
971     <xsd:element name="firstSliceAng" type="CT_FirstSliceAng" minOccurs="0" maxOccurs="1"/>
972     <xsd:element name="holeSize" type="CT_HoleSize" minOccurs="0" maxOccurs="1"/>
973     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
974   </xsd:sequence>
975 </xsd:complexType>
976 <xsd:simpleType name="ST_OfPieType">
977   <xsd:restriction base="xsd:string">
978     <xsd:enumeration value="pie"/>
979     <xsd:enumeration value="bar"/>
980   </xsd:restriction>
981 </xsd:simpleType>
982 <xsd:complexType name="CT_OfPieType">
983   <xsd:attribute name="val" type="ST_OfPieType" default="pie"/>
984 </xsd:complexType>
985 <xsd:complexType name="CT_OfPieChart">
986   <xsd:sequence>
987     <xsd:element name="ofPieType" type="CT_OfPieType" minOccurs="1" maxOccurs="1"/>
988     <xsd:group ref="EG_PieChartShared" minOccurs="1" maxOccurs="1"/>
989     <xsd:element name="gapWidth" type="CT_GapAmount" minOccurs="0" maxOccurs="1"/>
990     <xsd:element name="splitType" type="CT_SplitType" minOccurs="0" maxOccurs="1"/>
991     <xsd:element name="splitPos" type="CT_Double" minOccurs="0" maxOccurs="1"/>
992     <xsd:element name="custSplit" type="CT_CustSplit" minOccurs="0" maxOccurs="1"/>
993     <xsd:element name="secondPieSize" type="CT_SecondPieSize" minOccurs="0" maxOccurs="1"/>
994     <xsd:element name="serLines" type="CT_ChartLines" minOccurs="0" maxOccurs="unbounded"/>
995     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
996   </xsd:sequence>
997 </xsd:complexType>
998 <xsd:complexType name="CT_BubbleChart">
999   <xsd:sequence>

```

```

1000     <xsd:element name="varyColors" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
1001     <xsd:element name="ser" type="CT_BubbleSer" minOccurs="0" maxOccurs="unbounded"/>
1002     <xsd:element name="dLbls" type="CT_DLbls" minOccurs="0" maxOccurs="1"/>
1003     <xsd:element name="bubble3D" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
1004     <xsd:element name="bubbleScale" type="CT_BubbleScale" minOccurs="0" maxOccurs="1"/>
1005     <xsd:element name="showNegBubbles" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
1006     <xsd:element name="sizeRepresents" type="CT_SizeRepresents" minOccurs="0" maxOccurs="1"/>
1007     <xsd:element name="axId" type="CT_UnsignedInt" minOccurs="2" maxOccurs="2"/>
1008     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
1009   </xsd:sequence>
1010 </xsd:complexType>
1011 <xsd:complexType name="CT_BandFmt">
1012   <xsd:sequence>
1013     <xsd:element name="idx" type="CT_UnsignedInt" minOccurs="1" maxOccurs="1"/>
1014     <xsd:element name="spPr" type="a:CT_ShapeProperties" minOccurs="0" maxOccurs="1"/>
1015   </xsd:sequence>
1016 </xsd:complexType>
1017 <xsd:complexType name="CT_BandFmts">
1018   <xsd:sequence>
1019     <xsd:element name="bandFmt" type="CT_BandFmt" minOccurs="0" maxOccurs="unbounded"/>
1020   </xsd:sequence>
1021 </xsd:complexType>
1022 <xsd:group name="EG_SurfaceChartShared">
1023   <xsd:sequence>
1024     <xsd:element name="wireframe" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
1025     <xsd:element name="ser" type="CT_SurfaceSer" minOccurs="0" maxOccurs="unbounded"/>
1026     <xsd:element name="bandFmts" type="CT_BandFmts" minOccurs="0" maxOccurs="1"/>
1027   </xsd:sequence>
1028 </xsd:group>
1029 <xsd:complexType name="CT_SurfaceChart">
1030   <xsd:sequence>
1031     <xsd:group ref="EG_SurfaceChartShared" minOccurs="1" maxOccurs="1"/>
1032     <xsd:element name="axId" type="CT_UnsignedInt" minOccurs="2" maxOccurs="3"/>
1033     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
1034   </xsd:sequence>
1035 </xsd:complexType>
1036 <xsd:complexType name="CT_Surface3DChart">
1037   <xsd:sequence>
1038     <xsd:group ref="EG_SurfaceChartShared" minOccurs="1" maxOccurs="1"/>
1039     <xsd:element name="axId" type="CT_UnsignedInt" minOccurs="3" maxOccurs="3"/>
1040     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
1041   </xsd:sequence>
1042 </xsd:complexType>
1043 <xsd:simpleType name="ST_AxPos">
1044   <xsd:restriction base="xsd:string">
1045     <xsd:enumeration value="b"/>
1046     <xsd:enumeration value="l"/>
1047     <xsd:enumeration value="r"/>
1048     <xsd:enumeration value="t"/>
1049   </xsd:restriction>
1050 </xsd:simpleType>
1051 <xsd:complexType name="CT_AxPos">
1052   <xsd:attribute name="val" type="ST_AxPos" use="required"/>

```

```

1053 </xsd:complexType>
1054 <xsd:simpleType name="ST_Crosses">
1055   <xsd:restriction base="xsd:string">
1056     <xsd:enumeration value="autoZero"/>
1057     <xsd:enumeration value="max"/>
1058     <xsd:enumeration value="min"/>
1059   </xsd:restriction>
1060 </xsd:simpleType>
1061 <xsd:complexType name="CT_Crosses">
1062   <xsd:attribute name="val" type="ST_Crosses" use="required"/>
1063 </xsd:complexType>
1064 <xsd:simpleType name="ST_CrossBetween">
1065   <xsd:restriction base="xsd:string">
1066     <xsd:enumeration value="between"/>
1067     <xsd:enumeration value="midCat"/>
1068   </xsd:restriction>
1069 </xsd:simpleType>
1070 <xsd:complexType name="CT_CrossBetween">
1071   <xsd:attribute name="val" type="ST_CrossBetween" use="required"/>
1072 </xsd:complexType>
1073 <xsd:simpleType name="ST_TickMark">
1074   <xsd:restriction base="xsd:string">
1075     <xsd:enumeration value="cross"/>
1076     <xsd:enumeration value="in"/>
1077     <xsd:enumeration value="none"/>
1078     <xsd:enumeration value="out"/>
1079   </xsd:restriction>
1080 </xsd:simpleType>
1081 <xsd:complexType name="CT_TickMark">
1082   <xsd:attribute name="val" type="ST_TickMark" default="cross"/>
1083 </xsd:complexType>
1084 <xsd:simpleType name="ST_TickLblPos">
1085   <xsd:restriction base="xsd:string">
1086     <xsd:enumeration value="high"/>
1087     <xsd:enumeration value="low"/>
1088     <xsd:enumeration value="nextTo"/>
1089     <xsd:enumeration value="none"/>
1090   </xsd:restriction>
1091 </xsd:simpleType>
1092 <xsd:complexType name="CT_TickLblPos">
1093   <xsd:attribute name="val" type="ST_TickLblPos" default="nextTo"/>
1094 </xsd:complexType>
1095 <xsd:simpleType name="ST_Skip">
1096   <xsd:restriction base="xsd:unsignedInt">
1097     <xsd:minInclusive value="1"/>
1098   </xsd:restriction>
1099 </xsd:simpleType>
1100 <xsd:complexType name="CT_Skip">
1101   <xsd:attribute name="val" type="ST_Skip" use="required"/>
1102 </xsd:complexType>
1103 <xsd:simpleType name="ST_TimeUnit">
1104   <xsd:restriction base="xsd:string">
1105     <xsd:enumeration value="days"/>

```

```

1106         <xsd:enumeration value="months"/>
1107         <xsd:enumeration value="years"/>
1108     </xsd:restriction>
1109 </xsd:simpleType>
1110 <xsd:complexType name="CT_TimeUnit">
1111     <xsd:attribute name="val" type="ST_TimeUnit" default="days"/>
1112 </xsd:complexType>
1113 <xsd:simpleType name="ST_AxisUnit">
1114     <xsd:restriction base="xsd:double">
1115         <xsd:minExclusive value="0"/>
1116     </xsd:restriction>
1117 </xsd:simpleType>
1118 <xsd:complexType name="CT_AxisUnit">
1119     <xsd:attribute name="val" type="ST_AxisUnit" use="required"/>
1120 </xsd:complexType>
1121 <xsd:simpleType name="ST_BuiltInUnit">
1122     <xsd:restriction base="xsd:string">
1123         <xsd:enumeration value="hundreds"/>
1124         <xsd:enumeration value="thousands"/>
1125         <xsd:enumeration value="tenThousands"/>
1126         <xsd:enumeration value="hundredThousands"/>
1127         <xsd:enumeration value="millions"/>
1128         <xsd:enumeration value="tenMillions"/>
1129         <xsd:enumeration value="hundredMillions"/>
1130         <xsd:enumeration value="billions"/>
1131         <xsd:enumeration value="trillions"/>
1132     </xsd:restriction>
1133 </xsd:simpleType>
1134 <xsd:complexType name="CT_BuiltInUnit">
1135     <xsd:attribute name="val" type="ST_BuiltInUnit" default="thousands"/>
1136 </xsd:complexType>
1137 <xsd:simpleType name="ST_PictureFormat">
1138     <xsd:restriction base="xsd:string">
1139         <xsd:enumeration value="stretch"/>
1140         <xsd:enumeration value="stack"/>
1141         <xsd:enumeration value="stackScale"/>
1142     </xsd:restriction>
1143 </xsd:simpleType>
1144 <xsd:complexType name="CT_PictureFormat">
1145     <xsd:attribute name="val" type="ST_PictureFormat" use="required"/>
1146 </xsd:complexType>
1147 <xsd:simpleType name="ST_PictureStackUnit">
1148     <xsd:restriction base="xsd:double">
1149         <xsd:minExclusive value="0"/>
1150     </xsd:restriction>
1151 </xsd:simpleType>
1152 <xsd:complexType name="CT_PictureStackUnit">
1153     <xsd:attribute name="val" type="ST_PictureStackUnit" use="required"/>
1154 </xsd:complexType>
1155 <xsd:complexType name="CT_PictureOptions">
1156     <xsd:sequence>
1157         <xsd:element name="applyToFront" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
1158         <xsd:element name="applyToSides" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>

```

```

1159     <xsd:element name="applyToEnd" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
1160     <xsd:element name="pictureFormat" type="CT_PictureFormat" minOccurs="0" maxOccurs="1"/>
1161     <xsd:element name="pictureStackUnit" type="CT_PictureStackUnit" minOccurs="0"
1162         maxOccurs="1"/>
1163     </xsd:sequence>
1164 </xsd:complexType>
1165 <xsd:complexType name="CT_DispUnitsLbl">
1166     <xsd:sequence>
1167         <xsd:element name="layout" type="CT_Layout" minOccurs="0" maxOccurs="1"/>
1168         <xsd:element name="tx" type="CT_Tx" minOccurs="0" maxOccurs="1"/>
1169         <xsd:element name="spPr" type="a:CT_ShapeProperties" minOccurs="0" maxOccurs="1"/>
1170         <xsd:element name="txPr" type="a:CT_TextBody" minOccurs="0" maxOccurs="1"/>
1171     </xsd:sequence>
1172 </xsd:complexType>
1173 <xsd:complexType name="CT_DispUnits">
1174     <xsd:sequence>
1175         <xsd:choice>
1176             <xsd:element name="custUnit" type="CT_Double" minOccurs="1" maxOccurs="1"/>
1177             <xsd:element name="builtInUnit" type="CT_BuiltInUnit" minOccurs="1" maxOccurs="1"/>
1178         </xsd:choice>
1179         <xsd:element name="dispUnitsLbl" type="CT_DispUnitsLbl" minOccurs="0" maxOccurs="1"/>
1180         <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
1181     </xsd:sequence>
1182 </xsd:complexType>
1183 <xsd:simpleType name="ST_Orientation">
1184     <xsd:restriction base="xsd:string">
1185         <xsd:enumeration value="maxMin"/>
1186         <xsd:enumeration value="minMax"/>
1187     </xsd:restriction>
1188 </xsd:simpleType>
1189 <xsd:complexType name="CT_Orientation">
1190     <xsd:attribute name="val" type="ST_Orientation" default="minMax"/>
1191 </xsd:complexType>
1192 <xsd:simpleType name="ST_LogBase">
1193     <xsd:restriction base="xsd:double">
1194         <xsd:minInclusive value="2"/>
1195         <xsd:maxInclusive value="1000"/>
1196     </xsd:restriction>
1197 </xsd:simpleType>
1198 <xsd:complexType name="CT_LogBase">
1199     <xsd:attribute name="val" type="ST_LogBase" use="required"/>
1200 </xsd:complexType>
1201 <xsd:complexType name="CT_Scaling">
1202     <xsd:sequence>
1203         <xsd:element name="logBase" type="CT_LogBase" minOccurs="0" maxOccurs="1"/>
1204         <xsd:element name="orientation" type="CT_Orientation" minOccurs="0" maxOccurs="1"/>
1205         <xsd:element name="max" type="CT_Double" minOccurs="0" maxOccurs="1"/>
1206         <xsd:element name="min" type="CT_Double" minOccurs="0" maxOccurs="1"/>
1207         <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
1208     </xsd:sequence>
1209 </xsd:complexType>
1210 <xsd:simpleType name="ST_LblOffset">
1211     <xsd:union memberTypes="ST_LblOffsetPercent ST_LblOffsetUShort"/>

```



```

1212 </xsd:simpleType>
1213 <xsd:simpleType name="ST_LblOffsetPercent">
1214   <xsd:restriction base="xsd:string">
1215     <xsd:pattern value="0*([0-9])|([1-9][0-9])|([1-9][0-9][0-9])|1000)%"/>
1216   </xsd:restriction>
1217 </xsd:simpleType>
1218 <xsd:simpleType name="ST_LblOffsetUShort">
1219   <xsd:restriction base="xsd:unsignedShort">
1220     <xsd:minInclusive value="0"/>
1221     <xsd:maxInclusive value="1000"/>
1222   </xsd:restriction>
1223 </xsd:simpleType>
1224 <xsd:complexType name="CT_LblOffset">
1225   <xsd:attribute name="val" type="ST_LblOffset" default="100%"/>
1226 </xsd:complexType>
1227 <xsd:group name="EG_AxShared">
1228   <xsd:sequence>
1229     <xsd:element name="axId" type="CT_UnsignedInt" minOccurs="1" maxOccurs="1"/>
1230     <xsd:element name="scaling" type="CT_Scaling" minOccurs="1" maxOccurs="1"/>
1231     <xsd:element name="delete" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
1232     <xsd:element name="axPos" type="CT_AxPos" minOccurs="1" maxOccurs="1"/>
1233     <xsd:element name="majorGridlines" type="CT_ChartLines" minOccurs="0" maxOccurs="1"/>
1234     <xsd:element name="minorGridlines" type="CT_ChartLines" minOccurs="0" maxOccurs="1"/>
1235     <xsd:element name="title" type="CT_Title" minOccurs="0" maxOccurs="1"/>
1236     <xsd:element name="numFmt" type="CT_NumFmt" minOccurs="0" maxOccurs="1"/>
1237     <xsd:element name="majorTickMark" type="CT_TickMark" minOccurs="0" maxOccurs="1"/>
1238     <xsd:element name="minorTickMark" type="CT_TickMark" minOccurs="0" maxOccurs="1"/>
1239     <xsd:element name="tickLblPos" type="CT_TickLblPos" minOccurs="0" maxOccurs="1"/>
1240     <xsd:element name="spPr" type="a:CT_ShapeProperties" minOccurs="0" maxOccurs="1"/>
1241     <xsd:element name="txPr" type="a:CT_TextBody" minOccurs="0" maxOccurs="1"/>
1242     <xsd:element name="crossAx" type="CT_UnsignedInt" minOccurs="1" maxOccurs="1"/>
1243     <xsd:choice minOccurs="0" maxOccurs="1">
1244       <xsd:element name="crosses" type="CT_Crosses" minOccurs="1" maxOccurs="1"/>
1245       <xsd:element name="crossesAt" type="CT_Double" minOccurs="1" maxOccurs="1"/>
1246     </xsd:choice>
1247   </xsd:sequence>
1248 </xsd:group>
1249 <xsd:complexType name="CT_CatAx">
1250   <xsd:sequence>
1251     <xsd:group ref="EG_AxShared" minOccurs="1" maxOccurs="1"/>
1252     <xsd:element name="auto" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
1253     <xsd:element name="lblAlign" type="CT_LblAlign" minOccurs="0" maxOccurs="1"/>
1254     <xsd:element name="lblOffset" type="CT_LblOffset" minOccurs="0" maxOccurs="1"/>
1255     <xsd:element name="tickLblSkip" type="CT_Skip" minOccurs="0" maxOccurs="1"/>
1256     <xsd:element name="tickMarkSkip" type="CT_Skip" minOccurs="0" maxOccurs="1"/>
1257     <xsd:element name="noMultiLvlLbl" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
1258     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
1259   </xsd:sequence>
1260 </xsd:complexType>
1261 <xsd:complexType name="CT_DateAx">
1262   <xsd:sequence>
1263     <xsd:group ref="EG_AxShared" minOccurs="1" maxOccurs="1"/>
1264     <xsd:element name="auto" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>

```

```

1265     <xsd:element name="lblOffset" type="CT LblOffset" minOccurs="0" maxOccurs="1"/>
1266     <xsd:element name="baseTimeUnit" type="CT TimeUnit" minOccurs="0" maxOccurs="1"/>
1267     <xsd:element name="majorUnit" type="CT AxisUnit" minOccurs="0" maxOccurs="1"/>
1268     <xsd:element name="majorTimeUnit" type="CT TimeUnit" minOccurs="0" maxOccurs="1"/>
1269     <xsd:element name="minorUnit" type="CT AxisUnit" minOccurs="0" maxOccurs="1"/>
1270     <xsd:element name="minorTimeUnit" type="CT TimeUnit" minOccurs="0" maxOccurs="1"/>
1271     <xsd:element name="extLst" type="CT ExtensionList" minOccurs="0" maxOccurs="1"/>
1272   </xsd:sequence>
1273 </xsd:complexType>
1274 <xsd:complexType name="CT_SerAx">
1275   <xsd:sequence>
1276     <xsd:group ref="EG_AxShared" minOccurs="1" maxOccurs="1"/>
1277     <xsd:element name="tickLblSkip" type="CT Skip" minOccurs="0" maxOccurs="1"/>
1278     <xsd:element name="tickMarkSkip" type="CT Skip" minOccurs="0" maxOccurs="1"/>
1279     <xsd:element name="extLst" type="CT ExtensionList" minOccurs="0" maxOccurs="1"/>
1280   </xsd:sequence>
1281 </xsd:complexType>
1282 <xsd:complexType name="CT_ValAx">
1283   <xsd:sequence>
1284     <xsd:group ref="EG_AxShared" minOccurs="1" maxOccurs="1"/>
1285     <xsd:element name="crossBetween" type="CT CrossBetween" minOccurs="0" maxOccurs="1"/>
1286     <xsd:element name="majorUnit" type="CT AxisUnit" minOccurs="0" maxOccurs="1"/>
1287     <xsd:element name="minorUnit" type="CT AxisUnit" minOccurs="0" maxOccurs="1"/>
1288     <xsd:element name="dispUnits" type="CT DispUnits" minOccurs="0" maxOccurs="1"/>
1289     <xsd:element name="extLst" type="CT ExtensionList" minOccurs="0" maxOccurs="1"/>
1290   </xsd:sequence>
1291 </xsd:complexType>
1292 <xsd:complexType name="CT_PlotArea">
1293   <xsd:sequence>
1294     <xsd:element name="layout" type="CT Layout" minOccurs="0" maxOccurs="1"/>
1295     <xsd:choice minOccurs="1" maxOccurs="unbounded">
1296       <xsd:element name="areaChart" type="CT AreaChart" minOccurs="1" maxOccurs="1"/>
1297       <xsd:element name="area3DChart" type="CT Area3DChart" minOccurs="1" maxOccurs="1"/>
1298       <xsd:element name="lineChart" type="CT LineChart" minOccurs="1" maxOccurs="1"/>
1299       <xsd:element name="line3DChart" type="CT Line3DChart" minOccurs="1" maxOccurs="1"/>
1300       <xsd:element name="stockChart" type="CT StockChart" minOccurs="1" maxOccurs="1"/>
1301       <xsd:element name="radarChart" type="CT RadarChart" minOccurs="1" maxOccurs="1"/>
1302       <xsd:element name="scatterChart" type="CT ScatterChart" minOccurs="1" maxOccurs="1"/>
1303       <xsd:element name="pieChart" type="CT PieChart" minOccurs="1" maxOccurs="1"/>
1304       <xsd:element name="pie3DChart" type="CT Pie3DChart" minOccurs="1" maxOccurs="1"/>
1305       <xsd:element name="doughnutChart" type="CT DoughnutChart" minOccurs="1" maxOccurs="1"/>
1306       <xsd:element name="barChart" type="CT BarChart" minOccurs="1" maxOccurs="1"/>
1307       <xsd:element name="bar3DChart" type="CT Bar3DChart" minOccurs="1" maxOccurs="1"/>
1308       <xsd:element name="ofPieChart" type="CT OfPieChart" minOccurs="1" maxOccurs="1"/>
1309       <xsd:element name="surfaceChart" type="CT SurfaceChart" minOccurs="1" maxOccurs="1"/>
1310       <xsd:element name="surface3DChart" type="CT Surface3DChart" minOccurs="1"
1311         maxOccurs="1"/>
1312       <xsd:element name="bubbleChart" type="CT BubbleChart" minOccurs="1" maxOccurs="1"/>
1313     </xsd:choice>
1314     <xsd:choice minOccurs="0" maxOccurs="unbounded">
1315       <xsd:element name="valAx" type="CT ValAx" minOccurs="1" maxOccurs="1"/>
1316       <xsd:element name="catAx" type="CT CatAx" minOccurs="1" maxOccurs="1"/>
1317       <xsd:element name="dateAx" type="CT DateAx" minOccurs="1" maxOccurs="1"/>

```



```

1318     <xsd:element name="serAx" type="CT_SerAx" minOccurs="1" maxOccurs="1"/>
1319   </xsd:choice>
1320   <xsd:element name="dTable" type="CT_DTable" minOccurs="0" maxOccurs="1"/>
1321   <xsd:element name="spPr" type="a:CT_ShapeProperties" minOccurs="0" maxOccurs="1"/>
1322   <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
1323 </xsd:sequence>
1324 </xsd:complexType>
1325 <xsd:complexType name="CT_PivotFmt">
1326   <xsd:sequence>
1327     <xsd:element name="idx" type="CT_UnsignedInt" minOccurs="1" maxOccurs="1"/>
1328     <xsd:element name="spPr" type="a:CT_ShapeProperties" minOccurs="0" maxOccurs="1"/>
1329     <xsd:element name="txPr" type="a:CT_TextBody" minOccurs="0" maxOccurs="1"/>
1330     <xsd:element name="marker" type="CT_Marker" minOccurs="0" maxOccurs="1"/>
1331     <xsd:element name="dLbl" type="CT_DLbl" minOccurs="0" maxOccurs="1"/>
1332     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
1333   </xsd:sequence>
1334 </xsd:complexType>
1335 <xsd:complexType name="CT_PivotFmts">
1336   <xsd:sequence>
1337     <xsd:element name="pivotFmt" type="CT_PivotFmt" minOccurs="0" maxOccurs="unbounded"/>
1338   </xsd:sequence>
1339 </xsd:complexType>
1340 <xsd:simpleType name="ST_LegendPos">
1341   <xsd:restriction base="xsd:string">
1342     <xsd:enumeration value="b"/>
1343     <xsd:enumeration value="tr"/>
1344     <xsd:enumeration value="l"/>
1345     <xsd:enumeration value="r"/>
1346     <xsd:enumeration value="t"/>
1347   </xsd:restriction>
1348 </xsd:simpleType>
1349 <xsd:complexType name="CT_LegendPos">
1350   <xsd:attribute name="val" type="ST_LegendPos" default="r"/>
1351 </xsd:complexType>
1352 <xsd:group name="EG_LegendEntryData">
1353   <xsd:sequence>
1354     <xsd:element name="txPr" type="a:CT_TextBody" minOccurs="0" maxOccurs="1"/>
1355   </xsd:sequence>
1356 </xsd:group>
1357 <xsd:complexType name="CT_LegendEntry">
1358   <xsd:sequence>
1359     <xsd:element name="idx" type="CT_UnsignedInt" minOccurs="1" maxOccurs="1"/>
1360     <xsd:choice>
1361       <xsd:element name="delete" type="CT_Boolean" minOccurs="1" maxOccurs="1"/>
1362       <xsd:group ref="EG_LegendEntryData" minOccurs="1" maxOccurs="1"/>
1363     </xsd:choice>
1364     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
1365   </xsd:sequence>
1366 </xsd:complexType>
1367 <xsd:complexType name="CT_Legend">
1368   <xsd:sequence>
1369     <xsd:element name="legendPos" type="CT_LegendPos" minOccurs="0" maxOccurs="1"/>

```

```

1370     <xsd:element name="legendEntry" type="CT_LegendEntry" minOccurs="0"
1371         maxOccurs="unbounded"/>
1372     <xsd:element name="layout" type="CT_Layout" minOccurs="0" maxOccurs="1"/>
1373     <xsd:element name="overlay" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
1374     <xsd:element name="spPr" type="a:CT_ShapeProperties" minOccurs="0" maxOccurs="1"/>
1375     <xsd:element name="txPr" type="a:CT_TextBody" minOccurs="0" maxOccurs="1"/>
1376     <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
1377 </xsd:sequence>
1378 </xsd:complexType>
1379 <xsd:simpleType name="ST_DisbBlanksAs">
1380     <xsd:restriction base="xsd:string">
1381         <xsd:enumeration value="span"/>
1382         <xsd:enumeration value="gap"/>
1383         <xsd:enumeration value="zero"/>
1384     </xsd:restriction>
1385 </xsd:simpleType>
1386 <xsd:complexType name="CT_DisbBlanksAs">
1387     <xsd:attribute name="val" type="ST_DisbBlanksAs" default="zero"/>
1388 </xsd:complexType>
1389 <xsd:complexType name="CT_Chart">
1390     <xsd:sequence>
1391         <xsd:element name="title" type="CT_Title" minOccurs="0" maxOccurs="1"/>
1392         <xsd:element name="autoTitleDeleted" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
1393         <xsd:element name="pivotFmts" type="CT_PivotFmts" minOccurs="0" maxOccurs="1"/>
1394         <xsd:element name="view3D" type="CT_View3D" minOccurs="0" maxOccurs="1"/>
1395         <xsd:element name="floor" type="CT_Surface" minOccurs="0" maxOccurs="1"/>
1396         <xsd:element name="sideWall" type="CT_Surface" minOccurs="0" maxOccurs="1"/>
1397         <xsd:element name="backWall" type="CT_Surface" minOccurs="0" maxOccurs="1"/>
1398         <xsd:element name="plotArea" type="CT_PlotArea" minOccurs="1" maxOccurs="1"/>
1399         <xsd:element name="legend" type="CT_Legend" minOccurs="0" maxOccurs="1"/>
1400         <xsd:element name="plotVisOnly" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
1401         <xsd:element name="disbBlanksAs" type="CT_DisbBlanksAs" minOccurs="0" maxOccurs="1"/>
1402         <xsd:element name="showDLblsOverMax" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
1403         <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
1404     </xsd:sequence>
1405 </xsd:complexType>
1406 <xsd:simpleType name="ST_Style">
1407     <xsd:restriction base="xsd:unsignedByte">
1408         <xsd:minInclusive value="1"/>
1409         <xsd:maxInclusive value="48"/>
1410     </xsd:restriction>
1411 </xsd:simpleType>
1412 <xsd:complexType name="CT_Style">
1413     <xsd:attribute name="val" type="ST_Style" use="required"/>
1414 </xsd:complexType>
1415 <xsd:complexType name="CT_PivotSource">
1416     <xsd:sequence>
1417         <xsd:element name="name" type="s:ST_Xstring" minOccurs="1" maxOccurs="1"/>
1418         <xsd:element name="fmtId" type="CT_UnsignedInt" minOccurs="1" maxOccurs="1"/>
1419         <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="unbounded"/>
1420     </xsd:sequence>
1421 </xsd:complexType>
1422 <xsd:complexType name="CT_Protection">

```

```

1423     <xsd:sequence>
1424         <xsd:element name="chartObject" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
1425         <xsd:element name="data" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
1426         <xsd:element name="formatting" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
1427         <xsd:element name="selection" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
1428         <xsd:element name="userInterface" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
1429     </xsd:sequence>
1430 </xsd:complexType>
1431 <xsd:complexType name="CT_HeaderFooter">
1432     <xsd:sequence>
1433         <xsd:element name="oddHeader" type="s:ST_Xstring" minOccurs="0" maxOccurs="1"/>
1434         <xsd:element name="oddFooter" type="s:ST_Xstring" minOccurs="0" maxOccurs="1"/>
1435         <xsd:element name="evenHeader" type="s:ST_Xstring" minOccurs="0" maxOccurs="1"/>
1436         <xsd:element name="evenFooter" type="s:ST_Xstring" minOccurs="0" maxOccurs="1"/>
1437         <xsd:element name="firstHeader" type="s:ST_Xstring" minOccurs="0" maxOccurs="1"/>
1438         <xsd:element name="firstFooter" type="s:ST_Xstring" minOccurs="0" maxOccurs="1"/>
1439     </xsd:sequence>
1440     <xsd:attribute name="alignWithMargins" type="xsd:boolean" default="true"/>
1441     <xsd:attribute name="differentOddEven" type="xsd:boolean" default="false"/>
1442     <xsd:attribute name="differentFirst" type="xsd:boolean" default="false"/>
1443 </xsd:complexType>
1444 <xsd:complexType name="CT_PageMargins">
1445     <xsd:attribute name="l" type="xsd:double" use="required"/>
1446     <xsd:attribute name="r" type="xsd:double" use="required"/>
1447     <xsd:attribute name="t" type="xsd:double" use="required"/>
1448     <xsd:attribute name="b" type="xsd:double" use="required"/>
1449     <xsd:attribute name="header" type="xsd:double" use="required"/>
1450     <xsd:attribute name="footer" type="xsd:double" use="required"/>
1451 </xsd:complexType>
1452 <xsd:simpleType name="ST_PageSetupOrientation">
1453     <xsd:restriction base="xsd:string">
1454         <xsd:enumeration value="default"/>
1455         <xsd:enumeration value="portrait"/>
1456         <xsd:enumeration value="landscape"/>
1457     </xsd:restriction>
1458 </xsd:simpleType>
1459 <xsd:complexType name="CT_ExternalData">
1460     <xsd:sequence>
1461         <xsd:element name="autoUpdate" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
1462     </xsd:sequence>
1463     <xsd:attribute ref="r:id" use="required"/>
1464 </xsd:complexType>
1465 <xsd:complexType name="CT_PageSetup">
1466     <xsd:attribute name="paperSize" type="xsd:unsignedInt" use="optional" default="1"/>
1467     <xsd:attribute name="paperHeight" type="s:ST_PositiveUniversalMeasure" use="optional"/>
1468     <xsd:attribute name="paperWidth" type="s:ST_PositiveUniversalMeasure" use="optional"/>
1469     <xsd:attribute name="firstPageNumber" type="xsd:unsignedInt" use="optional" default="1"/>
1470     <xsd:attribute name="orientation" type="ST_PageSetupOrientation" use="optional"
1471         default="default"/>
1472     <xsd:attribute name="blackAndWhite" type="xsd:boolean" use="optional" default="false"/>
1473     <xsd:attribute name="draft" type="xsd:boolean" use="optional" default="false"/>
1474     <xsd:attribute name="useFirstPageNumber" type="xsd:boolean" use="optional" default="false"/>
1475     <xsd:attribute name="horizontalDpi" type="xsd:int" use="optional" default="600"/>

```

```

1476     <xsd:attribute name="verticalDpi" type="xsd:int" use="optional" default="600"/>
1477     <xsd:attribute name="copies" type="xsd:unsignedInt" use="optional" default="1"/>
1478   </xsd:complexType>
1479   <xsd:complexType name="CT_PrintSettings">
1480     <xsd:sequence>
1481       <xsd:element name="headerFooter" type="CT_HeaderFooter" minOccurs="0" maxOccurs="1"/>
1482       <xsd:element name="pageMargins" type="CT_PageMargins" minOccurs="0" maxOccurs="1"/>
1483       <xsd:element name="pageSetup" type="CT_PageSetup" minOccurs="0" maxOccurs="1"/>
1484       <xsd:element name="legacyDrawingHF" type="CT_RelId" minOccurs="0" maxOccurs="1"/>
1485     </xsd:sequence>
1486   </xsd:complexType>
1487   <xsd:complexType name="CT_ChartSpace">
1488     <xsd:sequence>
1489       <xsd:element name="date1904" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
1490       <xsd:element name="lang" type="CT_TextLanguageID" minOccurs="0" maxOccurs="1"/>
1491       <xsd:element name="roundedCorners" type="CT_Boolean" minOccurs="0" maxOccurs="1"/>
1492       <xsd:element name="style" type="CT_Style" minOccurs="0" maxOccurs="1"/>
1493       <xsd:element name="clrMapOvr" type="a:CT_ColorMapping" minOccurs="0" maxOccurs="1"/>
1494       <xsd:element name="pivotSource" type="CT_PivotSource" minOccurs="0" maxOccurs="1"/>
1495       <xsd:element name="protection" type="CT_Protection" minOccurs="0" maxOccurs="1"/>
1496       <xsd:element name="chart" type="CT_Chart" minOccurs="1" maxOccurs="1"/>
1497       <xsd:element name="spPr" type="a:CT_ShapeProperties" minOccurs="0" maxOccurs="1"/>
1498       <xsd:element name="txPr" type="a:CT_TextBody" minOccurs="0" maxOccurs="1"/>
1499       <xsd:element name="externalData" type="CT_ExternalData" minOccurs="0" maxOccurs="1"/>
1500       <xsd:element name="printSettings" type="CT_PrintSettings" minOccurs="0" maxOccurs="1"/>
1501       <xsd:element name="userShapes" type="CT_RelId" minOccurs="0" maxOccurs="1"/>
1502       <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
1503     </xsd:sequence>
1504   </xsd:complexType>
1505   <xsd:element name="chartSpace" type="CT_ChartSpace"/>
1506   <xsd:element name="userShapes" type="cdr:CT_Drawing"/>
1507   <xsd:element name="chart" type="CT_RelId"/>
1508 </xsd:schema>

```

## A.5.2 DrawingML - Chart Drawings

This schema is available in the file dml-chartDrawing.xsd.

```

1 <xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
2   xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main"
3   xmlns="http://schemas.openxmlformats.org/drawingml/2006/chartDrawing"
4   targetNamespace="http://schemas.openxmlformats.org/drawingml/2006/chartDrawing"
5   elementFormDefault="qualified">
6   <xsd:import namespace="http://schemas.openxmlformats.org/drawingml/2006/main" schemaLocation="dml-
7     main.xsd"/>
8   <xsd:complexType name="CT_ShapeNonVisual">
9     <xsd:sequence>
10       <xsd:element name="cNvPr" type="a:CT_NonVisualDrawingProps" minOccurs="1" maxOccurs="1"/>
11       <xsd:element name="cNvSpPr" type="a:CT_NonVisualDrawingShapeProps" minOccurs="1"
12         maxOccurs="1"/>
13     </xsd:sequence>
14   </xsd:complexType>
15   <xsd:complexType name="CT_Shape">

```

```

16      <xsd:sequence>
17          <xsd:element name="nvSpPr" type="CT_ShapeNonVisual" minOccurs="1" maxOccurs="1"/>
18          <xsd:element name="spPr" type="a:CT_ShapeProperties" minOccurs="1" maxOccurs="1"/>
19          <xsd:element name="style" type="a:CT_ShapeStyle" minOccurs="0" maxOccurs="1"/>
20          <xsd:element name="txBody" type="a:CT_TextBody" minOccurs="0" maxOccurs="1"/>
21      </xsd:sequence>
22      <xsd:attribute name="macro" type="xsd:string" use="optional"/>
23      <xsd:attribute name="textlink" type="xsd:string" use="optional"/>
24      <xsd:attribute name="fLocksText" type="xsd:boolean" use="optional" default="true"/>
25      <xsd:attribute name="fPublished" type="xsd:boolean" use="optional" default="false"/>
26  </xsd:complexType>
27  <xsd:complexType name="CT_ConnectorNonVisual">
28      <xsd:sequence>
29          <xsd:element name="cNvPr" type="a:CT_NonVisualDrawingProps" minOccurs="1" maxOccurs="1"/>
30          <xsd:element name="cNvCxnSpPr" type="a:CT_NonVisualConnectorProperties" minOccurs="1"
31              maxOccurs="1"/>
32      </xsd:sequence>
33  </xsd:complexType>
34  <xsd:complexType name="CT_Connector">
35      <xsd:sequence>
36          <xsd:element name="nvCxnSpPr" type="CT_ConnectorNonVisual" minOccurs="1" maxOccurs="1"/>
37          <xsd:element name="spPr" type="a:CT_ShapeProperties" minOccurs="1" maxOccurs="1"/>
38          <xsd:element name="style" type="a:CT_ShapeStyle" minOccurs="0" maxOccurs="1"/>
39      </xsd:sequence>
40      <xsd:attribute name="macro" type="xsd:string" use="optional"/>
41      <xsd:attribute name="fPublished" type="xsd:boolean" use="optional" default="false"/>
42  </xsd:complexType>
43  <xsd:complexType name="CT_PictureNonVisual">
44      <xsd:sequence>
45          <xsd:element name="cNvPr" type="a:CT_NonVisualDrawingProps" minOccurs="1" maxOccurs="1"/>
46          <xsd:element name="cNvPicPr" type="a:CT_NonVisualPictureProperties" minOccurs="1"
47              maxOccurs="1"/>
48      </xsd:sequence>
49  </xsd:complexType>
50  <xsd:complexType name="CT_Picture">
51      <xsd:sequence>
52          <xsd:element name="nvPicPr" type="CT_PictureNonVisual" minOccurs="1" maxOccurs="1"/>
53          <xsd:element name="blipFill" type="a:CT_BlipFillProperties" minOccurs="1" maxOccurs="1"/>
54          <xsd:element name="spPr" type="a:CT_ShapeProperties" minOccurs="1" maxOccurs="1"/>
55          <xsd:element name="style" type="a:CT_ShapeStyle" minOccurs="0" maxOccurs="1"/>
56      </xsd:sequence>
57      <xsd:attribute name="macro" type="xsd:string" use="optional" default=""/>
58      <xsd:attribute name="fPublished" type="xsd:boolean" use="optional" default="false"/>
59  </xsd:complexType>
60  <xsd:complexType name="CT_GraphicFrameNonVisual">
61      <xsd:sequence>
62          <xsd:element name="cNvPr" type="a:CT_NonVisualDrawingProps" minOccurs="1" maxOccurs="1"/>
63          <xsd:element name="cNvGraphicFramePr" type="a:CT_NonVisualGraphicFrameProperties"
64              minOccurs="1" maxOccurs="1"/>
65      </xsd:sequence>
66  </xsd:complexType>
67  <xsd:complexType name="CT_GraphicFrame">
68      <xsd:sequence>

```

```

69      <xsd:element name="nvGraphicFramePr" type="CT_GraphicFrameNonVisual" minOccurs="1"
70        maxOccurs="1"/>
71      <xsd:element name="xfrm" type="a:CT_Transform2D" minOccurs="1" maxOccurs="1"/>
72      <xsd:element ref="a:graphic" minOccurs="1" maxOccurs="1"/>
73    </xsd:sequence>
74    <xsd:attribute name="macro" type="xsd:string" use="optional"/>
75    <xsd:attribute name="fPublished" type="xsd:boolean" use="optional" default="false"/>
76  </xsd:complexType>
77  <xsd:complexType name="CT_GroupShapeNonVisual">
78    <xsd:sequence>
79      <xsd:element name="cNvPr" type="a:CT_NonVisualDrawingProps" minOccurs="1" maxOccurs="1"/>
80      <xsd:element name="cNvGrpSpPr" type="a:CT_NonVisualGroupDrawingShapeProps" minOccurs="1"
81        maxOccurs="1"/>
82    </xsd:sequence>
83  </xsd:complexType>
84  <xsd:complexType name="CT_GroupShape">
85    <xsd:sequence>
86      <xsd:element name="nvGrpSpPr" type="CT_GroupShapeNonVisual" minOccurs="1" maxOccurs="1"/>
87      <xsd:element name="grpSpPr" type="a:CT_GroupShapeProperties" minOccurs="1" maxOccurs="1"/>
88      <xsd:choice minOccurs="0" maxOccurs="unbounded">
89        <xsd:element name="sp" type="CT_Shape"/>
90        <xsd:element name="grpSp" type="CT_GroupShape"/>
91        <xsd:element name="graphicFrame" type="CT_GraphicFrame"/>
92        <xsd:element name="cxnSp" type="CT_Connector"/>
93        <xsd:element name="pic" type="CT_Picture"/>
94      </xsd:choice>
95    </xsd:sequence>
96  </xsd:complexType>
97  <xsd:group name="EG_ObjectChoices">
98    <xsd:sequence>
99      <xsd:choice minOccurs="1" maxOccurs="1">
100        <xsd:element name="sp" type="CT_Shape"/>
101        <xsd:element name="grpSp" type="CT_GroupShape"/>
102        <xsd:element name="graphicFrame" type="CT_GraphicFrame"/>
103        <xsd:element name="cxnSp" type="CT_Connector"/>
104        <xsd:element name="pic" type="CT_Picture"/>
105      </xsd:choice>
106    </xsd:sequence>
107  </xsd:group>
108  <xsd:simpleType name="ST_MarkerCoordinate">
109    <xsd:restriction base="xsd:double">
110      <xsd:minInclusive value="0.0"/>
111      <xsd:maxInclusive value="1.0"/>
112    </xsd:restriction>
113  </xsd:simpleType>
114  <xsd:complexType name="CT_Marker">
115    <xsd:sequence>
116      <xsd:element name="x" type="ST_MarkerCoordinate" minOccurs="1" maxOccurs="1"/>
117      <xsd:element name="y" type="ST_MarkerCoordinate" minOccurs="1" maxOccurs="1"/>
118    </xsd:sequence>
119  </xsd:complexType>
120  <xsd:complexType name="CT_RelSizeAnchor">
121    <xsd:sequence>

```



```

122     <xsd:element name="from" type="CT_Marker"/>
123     <xsd:element name="to" type="CT_Marker"/>
124     <xsd:group ref="EG_ObjectChoices"/>
125   </xsd:sequence>
126 </xsd:complexType>
127 <xsd:complexType name="CT_AbsSizeAnchor">
128   <xsd:sequence>
129     <xsd:element name="from" type="CT_Marker"/>
130     <xsd:element name="ext" type="a:CT_PositiveSize2D"/>
131     <xsd:group ref="EG_ObjectChoices"/>
132   </xsd:sequence>
133 </xsd:complexType>
134 <xsd:group name="EG_Anchor">
135   <xsd:choice>
136     <xsd:element name="relSizeAnchor" type="CT_RelSizeAnchor"/>
137     <xsd:element name="absSizeAnchor" type="CT_AbsSizeAnchor"/>
138   </xsd:choice>
139 </xsd:group>
140 <xsd:complexType name="CT_Drawing">
141   <xsd:sequence>
142     <xsd:group ref="EG_Anchor" minOccurs="0" maxOccurs="unbounded"/>
143   </xsd:sequence>
144 </xsd:complexType>
145 </xsd:schema>

```

### A.5.3 DrawingML - Diagrams

This schema is available in the file dml-diagram.xsd.

```

1 <xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
2   xmlns="http://schemas.openxmlformats.org/drawingml/2006/diagram"
3   xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main"
4   xmlns:r="http://schemas.openxmlformats.org/officeDocument/2006/relationships"
5   xmlns:s="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes"
6   targetNamespace="http://schemas.openxmlformats.org/drawingml/2006/diagram"
7   elementFormDefault="qualified" attributeFormDefault="unqualified">
8   <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/relationships"
9     schemaLocation="shared-relationshipReference.xsd"/>
10  <xsd:import namespace="http://schemas.openxmlformats.org/drawingml/2006/main" schemaLocation="dml-
11    main.xsd"/>
12  <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes"
13    schemaLocation="shared-commonSimpleTypes.xsd"/>
14  <xsd:complexType name="CT_CTName">
15    <xsd:attribute name="lang" type="xsd:string" use="optional" default=""/>
16    <xsd:attribute name="val" type="xsd:string" use="required"/>
17  </xsd:complexType>
18  <xsd:complexType name="CT_CTDescription">
19    <xsd:attribute name="lang" type="xsd:string" use="optional" default=""/>
20    <xsd:attribute name="val" type="xsd:string" use="required"/>
21  </xsd:complexType>
22  <xsd:complexType name="CT_CTCategory">
23    <xsd:attribute name="type" type="xsd:anyURI" use="required"/>
24    <xsd:attribute name="pri" type="xsd:unsignedInt" use="required"/>

```

```

25 </xsd:complexType>
26 <xsd:complexType name="CT_CTCategories">
27   <xsd:sequence minOccurs="0" maxOccurs="unbounded">
28     <xsd:element name="cat" type="CT_CTCategory" minOccurs="0" maxOccurs="unbounded"/>
29   </xsd:sequence>
30 </xsd:complexType>
31 <xsd:simpleType name="ST_ClrAppMethod">
32   <xsd:restriction base="xsd:token">
33     <xsd:enumeration value="span"/>
34     <xsd:enumeration value="cycle"/>
35     <xsd:enumeration value="repeat"/>
36   </xsd:restriction>
37 </xsd:simpleType>
38 <xsd:simpleType name="ST_HueDir">
39   <xsd:restriction base="xsd:token">
40     <xsd:enumeration value="cw"/>
41     <xsd:enumeration value="ccw"/>
42   </xsd:restriction>
43 </xsd:simpleType>
44 <xsd:complexType name="CT_Colors">
45   <xsd:sequence>
46     <xsd:group ref="a:EG_ColorChoice" minOccurs="0" maxOccurs="unbounded"/>
47   </xsd:sequence>
48   <xsd:attribute name="meth" type="ST_ClrAppMethod" use="optional" default="span"/>
49   <xsd:attribute name="hueDir" type="ST_HueDir" use="optional" default="cw"/>
50 </xsd:complexType>
51 <xsd:complexType name="CT_CTStyleLabel">
52   <xsd:sequence>
53     <xsd:element name="fillClrLst" type="CT_Colors" minOccurs="0" maxOccurs="1"/>
54     <xsd:element name="linClrLst" type="CT_Colors" minOccurs="0" maxOccurs="1"/>
55     <xsd:element name="effectClrLst" type="CT_Colors" minOccurs="0" maxOccurs="1"/>
56     <xsd:element name="txLinClrLst" type="CT_Colors" minOccurs="0" maxOccurs="1"/>
57     <xsd:element name="txFillClrLst" type="CT_Colors" minOccurs="0" maxOccurs="1"/>
58     <xsd:element name="txEffectClrLst" type="CT_Colors" minOccurs="0" maxOccurs="1"/>
59     <xsd:element name="extLst" type="a:CT_OfficeArtExtensionList" minOccurs="0"
60       maxOccurs="1"/>
61   </xsd:sequence>
62   <xsd:attribute name="name" type="xsd:string" use="required"/>
63 </xsd:complexType>
64 <xsd:complexType name="CT_ColorTransform">
65   <xsd:sequence>
66     <xsd:element name="title" type="CT_CTName" minOccurs="0" maxOccurs="unbounded"/>
67     <xsd:element name="desc" type="CT_CTDescription" minOccurs="0" maxOccurs="unbounded"/>
68     <xsd:element name="catLst" type="CT_CTCategories" minOccurs="0"/>
69     <xsd:element name="styleLbl" type="CT_CTStyleLabel" minOccurs="0" maxOccurs="unbounded"/>
70     <xsd:element name="extLst" type="a:CT_OfficeArtExtensionList" minOccurs="0"
71       maxOccurs="1"/>
72   </xsd:sequence>
73   <xsd:attribute name="uniqueId" type="xsd:string" use="optional" default=""/>
74   <xsd:attribute name="minVer" type="xsd:string" use="optional"
75     default="http://schemas.openxmlformats.org/drawingml/2006/diagram"/>
76 </xsd:complexType>
77 <xsd:element name="colorsDef" type="CT_ColorTransform"/>

```



```

78 <xsd:complexType name="CT_ColorTransformHeader">
79   <xsd:sequence>
80     <xsd:element name="title" type="CT_CTName" minOccurs="1" maxOccurs="unbounded"/>
81     <xsd:element name="desc" type="CT_CTDescription" minOccurs="1" maxOccurs="unbounded"/>
82     <xsd:element name="catLst" type="CT_CTCategories" minOccurs="0"/>
83     <xsd:element name="extLst" type="a:CT_OfficeArtExtensionList" minOccurs="0"
84       maxOccurs="1"/>
85   </xsd:sequence>
86   <xsd:attribute name="uniqueId" type="xsd:string" use="required"/>
87   <xsd:attribute name="minVer" type="xsd:string" use="optional"
88     default="http://schemas.openxmlformats.org/drawingml/2006/diagram"/>
89   <xsd:attribute name="resId" type="xsd:int" use="optional" default="0"/>
90 </xsd:complexType>
91 <xsd:element name="colorsDefHdr" type="CT_ColorTransformHeader"/>
92 <xsd:complexType name="CT_ColorTransformHeaderLst">
93   <xsd:sequence>
94     <xsd:element name="colorsDefHdr" type="CT_ColorTransformHeader" minOccurs="0"
95       maxOccurs="unbounded"/>
96   </xsd:sequence>
97 </xsd:complexType>
98 <xsd:element name="colorsDefHdrLst" type="CT_ColorTransformHeaderLst"/>
99 <xsd:simpleType name="ST_PtType">
100   <xsd:restriction base="xsd:token">
101     <xsd:enumeration value="node"/>
102     <xsd:enumeration value="asst"/>
103     <xsd:enumeration value="doc"/>
104     <xsd:enumeration value="pres"/>
105     <xsd:enumeration value="parTrans"/>
106     <xsd:enumeration value="sibTrans"/>
107   </xsd:restriction>
108 </xsd:simpleType>
109 <xsd:complexType name="CT_Pt">
110   <xsd:sequence>
111     <xsd:element name="prSet" type="CT_ElemPropSet" minOccurs="0" maxOccurs="1"/>
112     <xsd:element name="spPr" type="a:CT_ShapeProperties" minOccurs="0" maxOccurs="1"/>
113     <xsd:element name="t" type="a:CT_TextBody" minOccurs="0" maxOccurs="1"/>
114     <xsd:element name="extLst" type="a:CT_OfficeArtExtensionList" minOccurs="0"
115       maxOccurs="1"/>
116   </xsd:sequence>
117   <xsd:attribute name="modelId" type="ST_ModelId" use="required"/>
118   <xsd:attribute name="type" type="ST_PtType" use="optional" default="node"/>
119   <xsd:attribute name="cxnId" type="ST_ModelId" use="optional" default="0"/>
120 </xsd:complexType>
121 <xsd:complexType name="CT_PtList">
122   <xsd:sequence>
123     <xsd:element name="pt" type="CT_Pt" minOccurs="0" maxOccurs="unbounded"/>
124   </xsd:sequence>
125 </xsd:complexType>
126 <xsd:simpleType name="ST_CxnType">
127   <xsd:restriction base="xsd:token">
128     <xsd:enumeration value="parOf"/>
129     <xsd:enumeration value="presOf"/>
130     <xsd:enumeration value="presParOf"/>

```

```

131     <xsd:enumeration value="unknownRelationship"/>
132   </xsd:restriction>
133 </xsd:simpleType>
134 <xsd:complexType name="CT_Cxn">
135   <xsd:sequence>
136     <xsd:element name="extLst" type="a:CT_OfficeArtExtensionList" minOccurs="0"
137       maxOccurs="1"/>
138   </xsd:sequence>
139   <xsd:attribute name="modelId" type="ST_ModelId" use="required"/>
140   <xsd:attribute name="type" type="ST_CxnType" use="optional" default="parOf"/>
141   <xsd:attribute name="srcId" type="ST_ModelId" use="required"/>
142   <xsd:attribute name="destId" type="ST_ModelId" use="required"/>
143   <xsd:attribute name="srcOrd" type="xsd:unsignedInt" use="required"/>
144   <xsd:attribute name="destOrd" type="xsd:unsignedInt" use="required"/>
145   <xsd:attribute name="parTransId" type="ST_ModelId" use="optional" default="0"/>
146   <xsd:attribute name="sibTransId" type="ST_ModelId" use="optional" default="0"/>
147   <xsd:attribute name="presId" type="xsd:string" use="optional" default=""/>
148 </xsd:complexType>
149 <xsd:complexType name="CT_CxnList">
150   <xsd:sequence>
151     <xsd:element name="cxn" type="CT_Cxn" minOccurs="0" maxOccurs="unbounded"/>
152   </xsd:sequence>
153 </xsd:complexType>
154 <xsd:complexType name="CT_DataModel">
155   <xsd:sequence>
156     <xsd:element name="ptLst" type="CT_PtList"/>
157     <xsd:element name="cxnLst" type="CT_CxnList" minOccurs="0" maxOccurs="1"/>
158     <xsd:element name="bg" type="a:CT_BackgroundFormatting" minOccurs="0"/>
159     <xsd:element name="whole" type="a:CT_WholeE2oFormatting" minOccurs="0"/>
160     <xsd:element name="extLst" type="a:CT_OfficeArtExtensionList" minOccurs="0"
161       maxOccurs="1"/>
162   </xsd:sequence>
163 </xsd:complexType>
164 <xsd:element name="dataModel" type="CT_DataModel"/>
165 <xsd:attributeGroup name="AG_IteratorAttributes">
166   <xsd:attribute name="axis" type="ST_AxisTypes" use="optional" default="none"/>
167   <xsd:attribute name="ptType" type="ST_ElementTypes" use="optional" default="all"/>
168   <xsd:attribute name="hideLastTrans" type="ST_Booleans" use="optional" default="true"/>
169   <xsd:attribute name="st" type="ST_Ints" use="optional" default="1"/>
170   <xsd:attribute name="cnt" type="ST_UnsignedInts" use="optional" default="0"/>
171   <xsd:attribute name="step" type="ST_Ints" use="optional" default="1"/>
172 </xsd:attributeGroup>
173 <xsd:attributeGroup name="AG_ConstraintAttributes">
174   <xsd:attribute name="type" type="ST_ConstraintType" use="required"/>
175   <xsd:attribute name="for" type="ST_ConstraintRelationship" use="optional" default="self"/>
176   <xsd:attribute name="forName" type="xsd:string" use="optional" default=""/>
177   <xsd:attribute name="ptType" type="ST_ElementType" use="optional" default="all"/>
178 </xsd:attributeGroup>
179 <xsd:attributeGroup name="AG_ConstraintRefAttributes">
180   <xsd:attribute name="refType" type="ST_ConstraintType" use="optional" default="none"/>
181   <xsd:attribute name="refFor" type="ST_ConstraintRelationship" use="optional" default="self"/>
182   <xsd:attribute name="refForName" type="xsd:string" use="optional" default=""/>
183   <xsd:attribute name="refPtType" type="ST_ElementType" use="optional" default="all"/>

```

```

184 </xsd:attributeGroup>
185 <xsd:complexType name="CT_Constraint">
186   <xsd:sequence>
187     <xsd:element name="extLst" type="a:CT_OfficeArtExtensionList" minOccurs="0"
188       maxOccurs="1"/>
189   </xsd:sequence>
190   <xsd:attributeGroup ref="AG_ConstraintAttributes"/>
191   <xsd:attributeGroup ref="AG_ConstraintRefAttributes"/>
192   <xsd:attribute name="op" type="ST_BooleanOperator" use="optional" default="none"/>
193   <xsd:attribute name="val" type="xsd:double" use="optional" default="0"/>
194   <xsd:attribute name="fact" type="xsd:double" use="optional" default="1"/>
195 </xsd:complexType>
196 <xsd:complexType name="CT_Constraints">
197   <xsd:sequence>
198     <xsd:element name="constr" type="CT_Constraint" minOccurs="0" maxOccurs="unbounded"/>
199   </xsd:sequence>
200 </xsd:complexType>
201 <xsd:complexType name="CT_NumericRule">
202   <xsd:sequence>
203     <xsd:element name="extLst" type="a:CT_OfficeArtExtensionList" minOccurs="0"
204       maxOccurs="1"/>
205   </xsd:sequence>
206   <xsd:attributeGroup ref="AG_ConstraintAttributes"/>
207   <xsd:attribute name="val" type="xsd:double" use="optional" default="NaN"/>
208   <xsd:attribute name="fact" type="xsd:double" use="optional" default="NaN"/>
209   <xsd:attribute name="max" type="xsd:double" use="optional" default="NaN"/>
210 </xsd:complexType>
211 <xsd:complexType name="CT_Rules">
212   <xsd:sequence>
213     <xsd:element name="rule" type="CT_NumericRule" minOccurs="0" maxOccurs="unbounded"/>
214   </xsd:sequence>
215 </xsd:complexType>
216 <xsd:complexType name="CT_PresentationOf">
217   <xsd:sequence>
218     <xsd:element name="extLst" type="a:CT_OfficeArtExtensionList" minOccurs="0"
219       maxOccurs="1"/>
220   </xsd:sequence>
221   <xsd:attributeGroup ref="AG_IteratorAttributes"/>
222 </xsd:complexType>
223 <xsd:simpleType name="ST_LayoutShapeType" final="restriction">
224   <xsd:union memberTypes="a:ST_ShapeType ST_OutputShapeType"/>
225 </xsd:simpleType>
226 <xsd:simpleType name="ST_Index1">
227   <xsd:restriction base="xsd:unsignedInt">
228     <xsd:minInclusive value="1"/>
229   </xsd:restriction>
230 </xsd:simpleType>
231 <xsd:complexType name="CT_Adj">
232   <xsd:attribute name="idx" type="ST_Index1" use="required"/>
233   <xsd:attribute name="val" type="xsd:double" use="required"/>
234 </xsd:complexType>
235 <xsd:complexType name="CT_AdjLst">
236   <xsd:sequence>

```

```

237     <xsd:element name="adj" type="CT_Adj" minOccurs="0" maxOccurs="unbounded"/>
238   </xsd:sequence>
239 </xsd:complexType>
240 <xsd:complexType name="CT_Shape">
241   <xsd:sequence>
242     <xsd:element name="adjLst" type="CT_AdjLst" minOccurs="0" maxOccurs="1"/>
243     <xsd:element name="extLst" type="a:CT_OfficeArtExtensionList" minOccurs="0"
244       maxOccurs="1"/>
245   </xsd:sequence>
246   <xsd:attribute name="rot" type="xsd:double" use="optional" default="0"/>
247   <xsd:attribute name="type" type="ST_LayoutShapeType" use="optional" default="none"/>
248   <xsd:attribute ref="r:blip" use="optional"/>
249   <xsd:attribute name="zOrderOff" type="xsd:int" use="optional" default="0"/>
250   <xsd:attribute name="hideGeom" type="xsd:boolean" use="optional" default="false"/>
251   <xsd:attribute name="lkTxEntry" type="xsd:boolean" use="optional" default="false"/>
252   <xsd:attribute name="blipPhldr" type="xsd:boolean" use="optional" default="false"/>
253 </xsd:complexType>
254 <xsd:complexType name="CT_Parameter">
255   <xsd:attribute name="type" type="ST_ParameterId" use="required"/>
256   <xsd:attribute name="val" type="ST_ParameterVal" use="required"/>
257 </xsd:complexType>
258 <xsd:complexType name="CT_Algorithm">
259   <xsd:sequence>
260     <xsd:element name="param" type="CT_Parameter" minOccurs="0" maxOccurs="unbounded"/>
261     <xsd:element name="extLst" type="a:CT_OfficeArtExtensionList" minOccurs="0"
262       maxOccurs="1"/>
263   </xsd:sequence>
264   <xsd:attribute name="type" type="ST_AlgorithmType" use="required"/>
265   <xsd:attribute name="rev" type="xsd:unsignedInt" use="optional" default="0"/>
266 </xsd:complexType>
267 <xsd:complexType name="CT_LayoutNode">
268   <xsd:choice minOccurs="0" maxOccurs="unbounded">
269     <xsd:element name="alg" type="CT_Algorithm" minOccurs="0" maxOccurs="1"/>
270     <xsd:element name="shape" type="CT_Shape" minOccurs="0" maxOccurs="1"/>
271     <xsd:element name="presOf" type="CT_PresentationOf" minOccurs="0" maxOccurs="1"/>
272     <xsd:element name="constrLst" type="CT_Constraints" minOccurs="0" maxOccurs="1"/>
273     <xsd:element name="ruleLst" type="CT_Rules" minOccurs="0" maxOccurs="1"/>
274     <xsd:element name="varLst" type="CT_LayoutVariablePropertySet" minOccurs="0"
275       maxOccurs="1"/>
276     <xsd:element name="forEach" type="CT_ForEach"/>
277     <xsd:element name="layoutNode" type="CT_LayoutNode"/>
278     <xsd:element name="choose" type="CT_Choose"/>
279     <xsd:element name="extLst" type="a:CT_OfficeArtExtensionList" minOccurs="0"
280       maxOccurs="1"/>
281   </xsd:choice>
282   <xsd:attribute name="name" type="xsd:string" use="optional" default=""/>
283   <xsd:attribute name="styleLbl" type="xsd:string" use="optional" default=""/>
284   <xsd:attribute name="chOrder" type="ST_ChildOrderType" use="optional" default="b"/>
285   <xsd:attribute name="moveWith" type="xsd:string" use="optional" default=""/>
286 </xsd:complexType>
287 <xsd:complexType name="CT_ForEach">
288   <xsd:choice minOccurs="0" maxOccurs="unbounded">
289     <xsd:element name="alg" type="CT_Algorithm" minOccurs="0" maxOccurs="1"/>

```

```

290     <xsd:element name="shape" type="CT_Shape" minOccurs="0" maxOccurs="1"/>
291     <xsd:element name="presOf" type="CT_PresentationOf" minOccurs="0" maxOccurs="1"/>
292     <xsd:element name="constrLst" type="CT_Constraints" minOccurs="0" maxOccurs="1"/>
293     <xsd:element name="ruleLst" type="CT_Rules" minOccurs="0" maxOccurs="1"/>
294     <xsd:element name="forEach" type="CT_ForEach"/>
295     <xsd:element name="layoutNode" type="CT_LayoutNode"/>
296     <xsd:element name="choose" type="CT_Choose"/>
297     <xsd:element name="extLst" type="a:CT_OfficeArtExtensionList" minOccurs="0"
298         maxOccurs="1"/>
299 </xsd:choice>
300 <xsd:attribute name="name" type="xsd:string" use="optional" default=""/>
301 <xsd:attribute name="ref" type="xsd:string" use="optional" default=""/>
302 <xsd:attributeGroup ref="AG_IteratorAttributes"/>
303 </xsd:complexType>
304 <xsd:complexType name="CT_When">
305     <xsd:choice minOccurs="0" maxOccurs="unbounded">
306         <xsd:element name="alg" type="CT_Algorithm" minOccurs="0" maxOccurs="1"/>
307         <xsd:element name="shape" type="CT_Shape" minOccurs="0" maxOccurs="1"/>
308         <xsd:element name="presOf" type="CT_PresentationOf" minOccurs="0" maxOccurs="1"/>
309         <xsd:element name="constrLst" type="CT_Constraints" minOccurs="0" maxOccurs="1"/>
310         <xsd:element name="ruleLst" type="CT_Rules" minOccurs="0" maxOccurs="1"/>
311         <xsd:element name="forEach" type="CT_ForEach"/>
312         <xsd:element name="layoutNode" type="CT_LayoutNode"/>
313         <xsd:element name="choose" type="CT_Choose"/>
314         <xsd:element name="extLst" type="a:CT_OfficeArtExtensionList" minOccurs="0"
315             maxOccurs="1"/>
316     </xsd:choice>
317     <xsd:attribute name="name" type="xsd:string" use="optional" default=""/>
318     <xsd:attributeGroup ref="AG_IteratorAttributes"/>
319     <xsd:attribute name="func" type="ST_FunctionType" use="required"/>
320     <xsd:attribute name="arg" type="ST_FunctionArgument" use="optional" default="none"/>
321     <xsd:attribute name="op" type="ST_FunctionOperator" use="required"/>
322     <xsd:attribute name="val" type="ST_FunctionValue" use="required"/>
323 </xsd:complexType>
324 <xsd:complexType name="CT_Otherwise">
325     <xsd:choice minOccurs="0" maxOccurs="unbounded">
326         <xsd:element name="alg" type="CT_Algorithm" minOccurs="0" maxOccurs="1"/>
327         <xsd:element name="shape" type="CT_Shape" minOccurs="0" maxOccurs="1"/>
328         <xsd:element name="presOf" type="CT_PresentationOf" minOccurs="0" maxOccurs="1"/>
329         <xsd:element name="constrLst" type="CT_Constraints" minOccurs="0" maxOccurs="1"/>
330         <xsd:element name="ruleLst" type="CT_Rules" minOccurs="0" maxOccurs="1"/>
331         <xsd:element name="forEach" type="CT_ForEach"/>
332         <xsd:element name="layoutNode" type="CT_LayoutNode"/>
333         <xsd:element name="choose" type="CT_Choose"/>
334         <xsd:element name="extLst" type="a:CT_OfficeArtExtensionList" minOccurs="0"
335             maxOccurs="1"/>
336     </xsd:choice>
337     <xsd:attribute name="name" type="xsd:string" use="optional" default=""/>
338 </xsd:complexType>
339 <xsd:complexType name="CT_Choose">
340     <xsd:sequence>
341         <xsd:element name="if" type="CT_When" maxOccurs="unbounded"/>
342         <xsd:element name="else" type="CT_Otherwise" minOccurs="0"/>

```

```

343     </xsd:sequence>
344     <xsd:attribute name="name" type="xsd:string" use="optional" default=""/>
345 </xsd:complexType>
346 <xsd:complexType name="CT_SampleData">
347     <xsd:sequence>
348         <xsd:element name="dataModel" type="CT_DataModel" minOccurs="0"/>
349     </xsd:sequence>
350     <xsd:attribute name="useDef" type="xsd:boolean" use="optional" default="false"/>
351 </xsd:complexType>
352 <xsd:complexType name="CT_Category">
353     <xsd:attribute name="type" type="xsd:anyURI" use="required"/>
354     <xsd:attribute name="pri" type="xsd:unsignedInt" use="required"/>
355 </xsd:complexType>
356 <xsd:complexType name="CT_Categories">
357     <xsd:sequence>
358         <xsd:element name="cat" type="CT_Category" minOccurs="0" maxOccurs="unbounded"/>
359     </xsd:sequence>
360 </xsd:complexType>
361 <xsd:complexType name="CT_Name">
362     <xsd:attribute name="lang" type="xsd:string" use="optional" default=""/>
363     <xsd:attribute name="val" type="xsd:string" use="required"/>
364 </xsd:complexType>
365 <xsd:complexType name="CT_Description">
366     <xsd:attribute name="lang" type="xsd:string" use="optional" default=""/>
367     <xsd:attribute name="val" type="xsd:string" use="required"/>
368 </xsd:complexType>
369 <xsd:complexType name="CT_DiagramDefinition">
370     <xsd:sequence>
371         <xsd:element name="title" type="CT_Name" minOccurs="0" maxOccurs="unbounded"/>
372         <xsd:element name="desc" type="CT_Description" minOccurs="0" maxOccurs="unbounded"/>
373         <xsd:element name="catLst" type="CT_Categories" minOccurs="0"/>
374         <xsd:element name="sampData" type="CT_SampleData" minOccurs="0"/>
375         <xsd:element name="styleData" type="CT_SampleData" minOccurs="0"/>
376         <xsd:element name="clrData" type="CT_SampleData" minOccurs="0"/>
377         <xsd:element name="layoutNode" type="CT_LayoutNode"/>
378         <xsd:element name="extLst" type="a:CT_OfficeArtExtensionList" minOccurs="0"
379             maxOccurs="1"/>
380     </xsd:sequence>
381     <xsd:attribute name="uniqueId" type="xsd:string" use="optional" default=""/>
382     <xsd:attribute name="minVer" type="xsd:string" use="optional"
383         default="http://schemas.openxmlformats.org/drawingml/2006/diagram"/>
384     <xsd:attribute name="defStyle" type="xsd:string" use="optional" default=""/>
385 </xsd:complexType>
386 <xsd:element name="layoutDef" type="CT_DiagramDefinition"/>
387 <xsd:complexType name="CT_DiagramDefinitionHeader">
388     <xsd:sequence>
389         <xsd:element name="title" type="CT_Name" minOccurs="1" maxOccurs="unbounded"/>
390         <xsd:element name="desc" type="CT_Description" minOccurs="1" maxOccurs="unbounded"/>
391         <xsd:element name="catLst" type="CT_Categories" minOccurs="0"/>
392         <xsd:element name="extLst" type="a:CT_OfficeArtExtensionList" minOccurs="0"
393             maxOccurs="1"/>
394     </xsd:sequence>
395     <xsd:attribute name="uniqueId" type="xsd:string" use="required"/>

```



```

396     <xsd:attribute name="minVer" type="xsd:string" use="optional"
397       default="http://schemas.openxmlformats.org/drawingml/2006/diagram"/>
398     <xsd:attribute name="defStyle" type="xsd:string" use="optional" default=""/>
399     <xsd:attribute name="resId" type="xsd:int" use="optional" default="0"/>
400   </xsd:complexType>
401   <xsd:element name="layoutDefHdr" type="CT_DiagramDefinitionHeader"/>
402   <xsd:complexType name="CT_DiagramDefinitionHeaderLst">
403     <xsd:sequence>
404       <xsd:element name="layoutDefHdr" type="CT_DiagramDefinitionHeader" minOccurs="0"
405         maxOccurs="unbounded"/>
406     </xsd:sequence>
407   </xsd:complexType>
408   <xsd:element name="layoutDefHdrLst" type="CT_DiagramDefinitionHeaderLst"/>
409   <xsd:complexType name="CT_RelIds">
410     <xsd:attribute ref="r:dm" use="required"/>
411     <xsd:attribute ref="r:lo" use="required"/>
412     <xsd:attribute ref="r:qs" use="required"/>
413     <xsd:attribute ref="r:cs" use="required"/>
414   </xsd:complexType>
415   <xsd:element name="relIds" type="CT_RelIds"/>
416   <xsd:simpleType name="ST_ParameterVal">
417     <xsd:union memberTypes="ST_DiagramHorizontalAlignment ST_VerticalAlignment ST_ChildDirection
418       ST_ChildAlignment ST_SecondaryChildAlignment ST_LinearDirection ST_SecondaryLinearDirection
419       ST_StartingElement ST_BendPoint ST_ConnectorRouting ST_ArrowheadStyle ST_ConnectorDimension
420       ST_RotationPath ST_CenterShapeMapping ST_NodeHorizontalAlignment ST_NodeVerticalAlignment
421       ST_FallbackDimension ST_TextDirection ST_PyramidAccentPosition ST_PyramidAccentTextMargin
422       ST_TextBlockDirection ST_TextAnchorHorizontal ST_TextAnchorVertical ST_DiagramTextAlignment
423       ST_AutoTextRotation ST_GrowDirection ST_FlowDirection ST_ContinueDirection ST_Breakpoint
424       ST_Offset ST_HierarchyAlignment xsd:int xsd:double xsd:boolean xsd:string
425       ST_ConnectorPoint"/>
426   </xsd:simpleType>
427   <xsd:simpleType name="ST_ModelId">
428     <xsd:union memberTypes="xsd:int s:ST_Guid"/>
429   </xsd:simpleType>
430   <xsd:simpleType name="ST_PrSetCustVal">
431     <xsd:union memberTypes="s:ST_Percentage xsd:int"/>
432   </xsd:simpleType>
433   <xsd:complexType name="CT_ElemPropSet">
434     <xsd:sequence>
435       <xsd:element name="presLayoutVars" type="CT_LayoutVariablePropertySet" minOccurs="0"
436         maxOccurs="1"/>
437       <xsd:element name="style" type="a:CT_ShapeStyle" minOccurs="0" maxOccurs="1"/>
438     </xsd:sequence>
439     <xsd:attribute name="presAssocID" type="ST_ModelId" use="optional"/>
440     <xsd:attribute name="presName" type="xsd:string" use="optional"/>
441     <xsd:attribute name="presStyleLbl" type="xsd:string" use="optional"/>
442     <xsd:attribute name="presStyleIdx" type="xsd:int" use="optional"/>
443     <xsd:attribute name="presStyleCnt" type="xsd:int" use="optional"/>
444     <xsd:attribute name="loTypeId" type="xsd:string" use="optional"/>
445     <xsd:attribute name="loCatId" type="xsd:string" use="optional"/>
446     <xsd:attribute name="qsTypeId" type="xsd:string" use="optional"/>
447     <xsd:attribute name="qsCatId" type="xsd:string" use="optional"/>
448     <xsd:attribute name="csTypeId" type="xsd:string" use="optional"/>

```

```

449     <xsd:attribute name="csCatId" type="xsd:string" use="optional"/>
450     <xsd:attribute name="coherent3DOff" type="xsd:boolean" use="optional"/>
451     <xsd:attribute name="phldrT" type="xsd:string" use="optional"/>
452     <xsd:attribute name="phldr" type="xsd:boolean" use="optional"/>
453     <xsd:attribute name="custAng" type="xsd:int" use="optional"/>
454     <xsd:attribute name="custFlipVert" type="xsd:boolean" use="optional"/>
455     <xsd:attribute name="custFlipHor" type="xsd:boolean" use="optional"/>
456     <xsd:attribute name="custSzX" type="xsd:int" use="optional"/>
457     <xsd:attribute name="custSzY" type="xsd:int" use="optional"/>
458     <xsd:attribute name="custScaleX" type="ST_PrSetCustVal" use="optional"/>
459     <xsd:attribute name="custScaleY" type="ST_PrSetCustVal" use="optional"/>
460     <xsd:attribute name="custT" type="xsd:boolean" use="optional"/>
461     <xsd:attribute name="custLinFactX" type="ST_PrSetCustVal" use="optional"/>
462     <xsd:attribute name="custLinFactY" type="ST_PrSetCustVal" use="optional"/>
463     <xsd:attribute name="custLinFactNeighborX" type="ST_PrSetCustVal" use="optional"/>
464     <xsd:attribute name="custLinFactNeighborY" type="ST_PrSetCustVal" use="optional"/>
465     <xsd:attribute name="custRadScaleRad" type="ST_PrSetCustVal" use="optional"/>
466     <xsd:attribute name="custRadScaleInc" type="ST_PrSetCustVal" use="optional"/>
467 </xsd:complexType>
468 <xsd:simpleType name="ST_Direction" final="restriction">
469     <xsd:restriction base="xsd:token">
470         <xsd:enumeration value="norm"/>
471         <xsd:enumeration value="rev"/>
472     </xsd:restriction>
473 </xsd:simpleType>
474 <xsd:simpleType name="ST_HierBranchStyle" final="restriction">
475     <xsd:restriction base="xsd:token">
476         <xsd:enumeration value="l"/>
477         <xsd:enumeration value="r"/>
478         <xsd:enumeration value="hang"/>
479         <xsd:enumeration value="std"/>
480         <xsd:enumeration value="init"/>
481     </xsd:restriction>
482 </xsd:simpleType>
483 <xsd:simpleType name="ST_AnimOneStr" final="restriction">
484     <xsd:restriction base="xsd:token">
485         <xsd:enumeration value="none"/>
486         <xsd:enumeration value="one"/>
487         <xsd:enumeration value="branch"/>
488     </xsd:restriction>
489 </xsd:simpleType>
490 <xsd:simpleType name="ST_AnimLvlStr" final="restriction">
491     <xsd:restriction base="xsd:token">
492         <xsd:enumeration value="none"/>
493         <xsd:enumeration value="lvl"/>
494         <xsd:enumeration value="ctr"/>
495     </xsd:restriction>
496 </xsd:simpleType>
497 <xsd:complexType name="CT_OrgChart">
498     <xsd:attribute name="val" type="xsd:boolean" default="false" use="optional"/>
499 </xsd:complexType>
500 <xsd:simpleType name="ST_NodeCount">
501     <xsd:restriction base="xsd:int">

```



```

502     <xsd:minInclusive value="-1"/>
503   </xsd:restriction>
504 </xsd:simpleType>
505 <xsd:complexType name="CT_ChildMax">
506   <xsd:attribute name="val" type="ST_NodeCount" default="-1" use="optional"/>
507 </xsd:complexType>
508 <xsd:complexType name="CT_ChildPref">
509   <xsd:attribute name="val" type="ST_NodeCount" default="-1" use="optional"/>
510 </xsd:complexType>
511 <xsd:complexType name="CT_BulletEnabled">
512   <xsd:attribute name="val" type="xsd:boolean" default="false" use="optional"/>
513 </xsd:complexType>
514 <xsd:complexType name="CT_Direction">
515   <xsd:attribute name="val" type="ST_Direction" default="norm" use="optional"/>
516 </xsd:complexType>
517 <xsd:complexType name="CT_HierBranchStyle">
518   <xsd:attribute name="val" type="ST_HierBranchStyle" default="std" use="optional"/>
519 </xsd:complexType>
520 <xsd:complexType name="CT_AnimOne">
521   <xsd:attribute name="val" type="ST_AnimOneStr" default="one" use="optional"/>
522 </xsd:complexType>
523 <xsd:complexType name="CT_AnimLvl">
524   <xsd:attribute name="val" type="ST_AnimLvlStr" default="none" use="optional"/>
525 </xsd:complexType>
526 <xsd:simpleType name="ST_ResizeHandlesStr" final="restriction">
527   <xsd:restriction base="xsd:token">
528     <xsd:enumeration value="exact"/>
529     <xsd:enumeration value="rel"/>
530   </xsd:restriction>
531 </xsd:simpleType>
532 <xsd:complexType name="CT_ResizeHandles">
533   <xsd:attribute name="val" type="ST_ResizeHandlesStr" default="rel" use="optional"/>
534 </xsd:complexType>
535 <xsd:complexType name="CT_LayoutVariablePropertySet">
536   <xsd:sequence>
537     <xsd:element name="orgChart" type="CT_OrgChart" minOccurs="0" maxOccurs="1"/>
538     <xsd:element name="chMax" type="CT_ChildMax" minOccurs="0" maxOccurs="1"/>
539     <xsd:element name="chPref" type="CT_ChildPref" minOccurs="0" maxOccurs="1"/>
540     <xsd:element name="bulletEnabled" type="CT_BulletEnabled" minOccurs="0" maxOccurs="1"/>
541     <xsd:element name="dir" type="CT_Direction" minOccurs="0" maxOccurs="1"/>
542     <xsd:element name="hierBranch" type="CT_HierBranchStyle" minOccurs="0" maxOccurs="1"/>
543     <xsd:element name="animOne" type="CT_AnimOne" minOccurs="0" maxOccurs="1"/>
544     <xsd:element name="animLvl" type="CT_AnimLvl" minOccurs="0" maxOccurs="1"/>
545     <xsd:element name="resizeHandles" type="CT_ResizeHandles" minOccurs="0" maxOccurs="1"/>
546   </xsd:sequence>
547 </xsd:complexType>
548 <xsd:complexType name="CT_SDName">
549   <xsd:attribute name="lang" type="xsd:string" use="optional" default=""/>
550   <xsd:attribute name="val" type="xsd:string" use="required"/>
551 </xsd:complexType>
552 <xsd:complexType name="CT_SDDescription">
553   <xsd:attribute name="lang" type="xsd:string" use="optional" default=""/>
554   <xsd:attribute name="val" type="xsd:string" use="required"/>

```

```

555 </xsd:complexType>
556 <xsd:complexType name="CT_SDCategory">
557   <xsd:attribute name="type" type="xsd:anyURI" use="required"/>
558   <xsd:attribute name="pri" type="xsd:unsignedInt" use="required"/>
559 </xsd:complexType>
560 <xsd:complexType name="CT_SDCategories">
561   <xsd:sequence minOccurs="0" maxOccurs="unbounded">
562     <xsd:element name="cat" type="CT_SDCategory" minOccurs="0" maxOccurs="unbounded"/>
563   </xsd:sequence>
564 </xsd:complexType>
565 <xsd:complexType name="CT_TextProps">
566   <xsd:sequence>
567     <xsd:group ref="a:EG_Text3D" minOccurs="0" maxOccurs="1"/>
568   </xsd:sequence>
569 </xsd:complexType>
570 <xsd:complexType name="CT_StyleLabel">
571   <xsd:sequence>
572     <xsd:element name="scene3d" type="a:CT_Scene3D" minOccurs="0" maxOccurs="1"/>
573     <xsd:element name="sp3d" type="a:CT_Shape3D" minOccurs="0" maxOccurs="1"/>
574     <xsd:element name="txPr" type="CT_TextProps" minOccurs="0" maxOccurs="1"/>
575     <xsd:element name="style" type="a:CT_ShapeStyle" minOccurs="0" maxOccurs="1"/>
576     <xsd:element name="extLst" type="a:CT_OfficeArtExtensionList" minOccurs="0"
577       maxOccurs="1"/>
578   </xsd:sequence>
579   <xsd:attribute name="name" type="xsd:string" use="required"/>
580 </xsd:complexType>
581 <xsd:complexType name="CT_StyleDefinition">
582   <xsd:sequence>
583     <xsd:element name="title" type="CT_SDName" minOccurs="0" maxOccurs="unbounded"/>
584     <xsd:element name="desc" type="CT_SDDescription" minOccurs="0" maxOccurs="unbounded"/>
585     <xsd:element name="catLst" type="CT_SDCategories" minOccurs="0"/>
586     <xsd:element name="scene3d" type="a:CT_Scene3D" minOccurs="0" maxOccurs="1"/>
587     <xsd:element name="styleLbl" type="CT_StyleLabel" minOccurs="1" maxOccurs="unbounded"/>
588     <xsd:element name="extLst" type="a:CT_OfficeArtExtensionList" minOccurs="0"
589       maxOccurs="1"/>
590   </xsd:sequence>
591   <xsd:attribute name="uniqueId" type="xsd:string" use="optional" default=""/>
592   <xsd:attribute name="minVer" type="xsd:string" use="optional"
593     default="http://schemas.openxmlformats.org/drawingml/2006/diagram"/>
594 </xsd:complexType>
595 <xsd:element name="styleDef" type="CT_StyleDefinition"/>
596 <xsd:complexType name="CT_StyleDefinitionHeader">
597   <xsd:sequence>
598     <xsd:element name="title" type="CT_SDName" minOccurs="1" maxOccurs="unbounded"/>
599     <xsd:element name="desc" type="CT_SDDescription" minOccurs="1" maxOccurs="unbounded"/>
600     <xsd:element name="catLst" type="CT_SDCategories" minOccurs="0"/>
601     <xsd:element name="extLst" type="a:CT_OfficeArtExtensionList" minOccurs="0"
602       maxOccurs="1"/>
603   </xsd:sequence>
604   <xsd:attribute name="uniqueId" type="xsd:string" use="required"/>
605   <xsd:attribute name="minVer" type="xsd:string" use="optional"
606     default="http://schemas.openxmlformats.org/drawingml/2006/diagram"/>
607   <xsd:attribute name="resId" type="xsd:int" use="optional" default="0"/>

```

```

608 </xsd:complexType>
609 <xsd:element name="styleDefHdr" type="CT_StyleDefinitionHeader"/>
610 <xsd:complexType name="CT_StyleDefinitionHeaderLst">
611   <xsd:sequence>
612     <xsd:element name="styleDefHdr" type="CT_StyleDefinitionHeader" minOccurs="0"
613       maxOccurs="unbounded"/>
614   </xsd:sequence>
615 </xsd:complexType>
616 <xsd:element name="styleDefHdrLst" type="CT_StyleDefinitionHeaderLst"/>
617 <xsd:simpleType name="ST_AlgorithmType" final="restriction">
618   <xsd:restriction base="xsd:token">
619     <xsd:enumeration value="composite"/>
620     <xsd:enumeration value="conn"/>
621     <xsd:enumeration value="cycle"/>
622     <xsd:enumeration value="hierChild"/>
623     <xsd:enumeration value="hierRoot"/>
624     <xsd:enumeration value="pyra"/>
625     <xsd:enumeration value="lin"/>
626     <xsd:enumeration value="sp"/>
627     <xsd:enumeration value="tx"/>
628     <xsd:enumeration value="snake"/>
629   </xsd:restriction>
630 </xsd:simpleType>
631 <xsd:simpleType name="ST_AxisType" final="restriction">
632   <xsd:restriction base="xsd:token">
633     <xsd:enumeration value="self"/>
634     <xsd:enumeration value="ch"/>
635     <xsd:enumeration value="des"/>
636     <xsd:enumeration value="desOrSelf"/>
637     <xsd:enumeration value="par"/>
638     <xsd:enumeration value="ancst"/>
639     <xsd:enumeration value="ancstOrSelf"/>
640     <xsd:enumeration value="followSib"/>
641     <xsd:enumeration value="precedSib"/>
642     <xsd:enumeration value="follow"/>
643     <xsd:enumeration value="preced"/>
644     <xsd:enumeration value="root"/>
645     <xsd:enumeration value="none"/>
646   </xsd:restriction>
647 </xsd:simpleType>
648 <xsd:simpleType name="ST_AxisTypes">
649   <xsd:list itemType="ST_AxisType"/>
650 </xsd:simpleType>
651 <xsd:simpleType name="ST_BoolOperator" final="restriction">
652   <xsd:restriction base="xsd:token">
653     <xsd:enumeration value="none"/>
654     <xsd:enumeration value="equ"/>
655     <xsd:enumeration value="gte"/>
656     <xsd:enumeration value="lte"/>
657   </xsd:restriction>
658 </xsd:simpleType>
659 <xsd:simpleType name="ST_ChildOrderType" final="restriction">
660   <xsd:restriction base="xsd:token">

```

```

661         <xsd:enumeration value="b"/>
662         <xsd:enumeration value="t"/>
663     </xsd:restriction>
664 </xsd:simpleType>
665 <xsd:simpleType name="ST_ConstraintType" final="restriction">
666     <xsd:restriction base="xsd:token">
667         <xsd:enumeration value="none"/>
668         <xsd:enumeration value="alignOff"/>
669         <xsd:enumeration value="begMarg"/>
670         <xsd:enumeration value="bendDist"/>
671         <xsd:enumeration value="begPad"/>
672         <xsd:enumeration value="b"/>
673         <xsd:enumeration value="bMarg"/>
674         <xsd:enumeration value="bOff"/>
675         <xsd:enumeration value="ctrX"/>
676         <xsd:enumeration value="ctrXOff"/>
677         <xsd:enumeration value="ctrY"/>
678         <xsd:enumeration value="ctrYOff"/>
679         <xsd:enumeration value="connDist"/>
680         <xsd:enumeration value="diam"/>
681         <xsd:enumeration value="endMarg"/>
682         <xsd:enumeration value="endPad"/>
683         <xsd:enumeration value="h"/>
684         <xsd:enumeration value="hArH"/>
685         <xsd:enumeration value="hOff"/>
686         <xsd:enumeration value="l"/>
687         <xsd:enumeration value="lMarg"/>
688         <xsd:enumeration value="lOff"/>
689         <xsd:enumeration value="r"/>
690         <xsd:enumeration value="rMarg"/>
691         <xsd:enumeration value="rOff"/>
692         <xsd:enumeration value="primFontSz"/>
693         <xsd:enumeration value="pyraAcctRatio"/>
694         <xsd:enumeration value="secFontSz"/>
695         <xsd:enumeration value="sibSp"/>
696         <xsd:enumeration value="secSibSp"/>
697         <xsd:enumeration value="sp"/>
698         <xsd:enumeration value="stemThick"/>
699         <xsd:enumeration value="t"/>
700         <xsd:enumeration value="tMarg"/>
701         <xsd:enumeration value="tOff"/>
702         <xsd:enumeration value="userA"/>
703         <xsd:enumeration value="userB"/>
704         <xsd:enumeration value="userC"/>
705         <xsd:enumeration value="userD"/>
706         <xsd:enumeration value="userE"/>
707         <xsd:enumeration value="userF"/>
708         <xsd:enumeration value="userG"/>
709         <xsd:enumeration value="userH"/>
710         <xsd:enumeration value="userI"/>
711         <xsd:enumeration value="userJ"/>
712         <xsd:enumeration value="userK"/>
713         <xsd:enumeration value="userL"/>

```

```

714     <xsd:enumeration value="userM"/>
715     <xsd:enumeration value="userN"/>
716     <xsd:enumeration value="userO"/>
717     <xsd:enumeration value="userP"/>
718     <xsd:enumeration value="userQ"/>
719     <xsd:enumeration value="userR"/>
720     <xsd:enumeration value="userS"/>
721     <xsd:enumeration value="userT"/>
722     <xsd:enumeration value="userU"/>
723     <xsd:enumeration value="userV"/>
724     <xsd:enumeration value="userW"/>
725     <xsd:enumeration value="userX"/>
726     <xsd:enumeration value="userY"/>
727     <xsd:enumeration value="userZ"/>
728     <xsd:enumeration value="w"/>
729     <xsd:enumeration value="wArH"/>
730     <xsd:enumeration value="wOff"/>
731   </xsd:restriction>
732 </xsd:simpleType>
733 <xsd:simpleType name="ST_ConstraintRelationship" final="restriction">
734   <xsd:restriction base="xsd:token">
735     <xsd:enumeration value="self"/>
736     <xsd:enumeration value="ch"/>
737     <xsd:enumeration value="des"/>
738   </xsd:restriction>
739 </xsd:simpleType>
740 <xsd:simpleType name="ST_ElementType" final="restriction">
741   <xsd:restriction base="xsd:token">
742     <xsd:enumeration value="all"/>
743     <xsd:enumeration value="doc"/>
744     <xsd:enumeration value="node"/>
745     <xsd:enumeration value="norm"/>
746     <xsd:enumeration value="nonNorm"/>
747     <xsd:enumeration value="asst"/>
748     <xsd:enumeration value="nonAsst"/>
749     <xsd:enumeration value="parTrans"/>
750     <xsd:enumeration value="pres"/>
751     <xsd:enumeration value="sibTrans"/>
752   </xsd:restriction>
753 </xsd:simpleType>
754 <xsd:simpleType name="ST_ElementTypes">
755   <xsd:list itemType="ST_ElementType"/>
756 </xsd:simpleType>
757 <xsd:simpleType name="ST_ParameterId" final="restriction">
758   <xsd:restriction base="xsd:token">
759     <xsd:enumeration value="horzAlign"/>
760     <xsd:enumeration value="vertAlign"/>
761     <xsd:enumeration value="chDir"/>
762     <xsd:enumeration value="chAlign"/>
763     <xsd:enumeration value="secChAlign"/>
764     <xsd:enumeration value="linDir"/>
765     <xsd:enumeration value="secLinDir"/>
766     <xsd:enumeration value="stElem"/>

```

```

767     <xsd:enumeration value="bendPt"/>
768     <xsd:enumeration value="connRout"/>
769     <xsd:enumeration value="begSty"/>
770     <xsd:enumeration value="endSty"/>
771     <xsd:enumeration value="dim"/>
772     <xsd:enumeration value="rotPath"/>
773     <xsd:enumeration value="ctrShpMap"/>
774     <xsd:enumeration value="nodeHorzAlign"/>
775     <xsd:enumeration value="nodeVertAlign"/>
776     <xsd:enumeration value="fallback"/>
777     <xsd:enumeration value="txDir"/>
778     <xsd:enumeration value="pyraAcctPos"/>
779     <xsd:enumeration value="pyraAcctTxMar"/>
780     <xsd:enumeration value="txBlDir"/>
781     <xsd:enumeration value="txAnchorHorz"/>
782     <xsd:enumeration value="txAnchorVert"/>
783     <xsd:enumeration value="txAnchorHorzCh"/>
784     <xsd:enumeration value="txAnchorVertCh"/>
785     <xsd:enumeration value="parTxLTRAlign"/>
786     <xsd:enumeration value="parTxRTLAlign"/>
787     <xsd:enumeration value="shpTxLTRAlignCh"/>
788     <xsd:enumeration value="shpTxRTLAlignCh"/>
789     <xsd:enumeration value="autoTxRot"/>
790     <xsd:enumeration value="grDir"/>
791     <xsd:enumeration value="flowDir"/>
792     <xsd:enumeration value="contDir"/>
793     <xsd:enumeration value="bkpt"/>
794     <xsd:enumeration value="off"/>
795     <xsd:enumeration value="hierAlign"/>
796     <xsd:enumeration value="bkPtFixedVal"/>
797     <xsd:enumeration value="stBulletLvl"/>
798     <xsd:enumeration value="stAng"/>
799     <xsd:enumeration value="spanAng"/>
800     <xsd:enumeration value="ar"/>
801     <xsd:enumeration value="lnSpPar"/>
802     <xsd:enumeration value="lnSpAfParP"/>
803     <xsd:enumeration value="lnSpCh"/>
804     <xsd:enumeration value="lnSpAfChP"/>
805     <xsd:enumeration value="rtShortDist"/>
806     <xsd:enumeration value="alignTx"/>
807     <xsd:enumeration value="pyraLvlNode"/>
808     <xsd:enumeration value="pyraAcctBkgdNode"/>
809     <xsd:enumeration value="pyraAcctTxNode"/>
810     <xsd:enumeration value="srcNode"/>
811     <xsd:enumeration value="dstNode"/>
812     <xsd:enumeration value="begPts"/>
813     <xsd:enumeration value="endPts"/>
814 </xsd:restriction>
815 </xsd:simpleType>
816 <xsd:simpleType name="ST_Ints">
817     <xsd:list itemType="xsd:int"/>
818 </xsd:simpleType>
819 <xsd:simpleType name="ST_UnsignedInts">

```

```

820     <xsd:list itemType="xsd:unsignedInt"/>
821 </xsd:simpleType>
822 <xsd:simpleType name="ST_Booleans">
823     <xsd:list itemType="xsd:boolean"/>
824 </xsd:simpleType>
825 <xsd:simpleType name="ST_FunctionType" final="restriction">
826     <xsd:restriction base="xsd:token">
827         <xsd:enumeration value="cnt"/>
828         <xsd:enumeration value="pos"/>
829         <xsd:enumeration value="revPos"/>
830         <xsd:enumeration value="posEven"/>
831         <xsd:enumeration value="posOdd"/>
832         <xsd:enumeration value="var"/>
833         <xsd:enumeration value="depth"/>
834         <xsd:enumeration value="maxDepth"/>
835     </xsd:restriction>
836 </xsd:simpleType>
837 <xsd:simpleType name="ST_FunctionOperator" final="restriction">
838     <xsd:restriction base="xsd:token">
839         <xsd:enumeration value="equ"/>
840         <xsd:enumeration value="neq"/>
841         <xsd:enumeration value="gt"/>
842         <xsd:enumeration value="lt"/>
843         <xsd:enumeration value="gte"/>
844         <xsd:enumeration value="lte"/>
845     </xsd:restriction>
846 </xsd:simpleType>
847 <xsd:simpleType name="ST_DiagramHorizontalAlignment" final="restriction">
848     <xsd:restriction base="xsd:token">
849         <xsd:enumeration value="l"/>
850         <xsd:enumeration value="ctr"/>
851         <xsd:enumeration value="r"/>
852         <xsd:enumeration value="none"/>
853     </xsd:restriction>
854 </xsd:simpleType>
855 <xsd:simpleType name="ST_VerticalAlignment" final="restriction">
856     <xsd:restriction base="xsd:token">
857         <xsd:enumeration value="t"/>
858         <xsd:enumeration value="mid"/>
859         <xsd:enumeration value="b"/>
860         <xsd:enumeration value="none"/>
861     </xsd:restriction>
862 </xsd:simpleType>
863 <xsd:simpleType name="ST_ChildDirection" final="restriction">
864     <xsd:restriction base="xsd:token">
865         <xsd:enumeration value="horz"/>
866         <xsd:enumeration value="vert"/>
867     </xsd:restriction>
868 </xsd:simpleType>
869 <xsd:simpleType name="ST_ChildAlignment" final="restriction">
870     <xsd:restriction base="xsd:token">
871         <xsd:enumeration value="t"/>
872         <xsd:enumeration value="b"/>

```



```

873     <xsd:enumeration value="l"/>
874     <xsd:enumeration value="r"/>
875   </xsd:restriction>
876 </xsd:simpleType>
877 <xsd:simpleType name="ST_SecondaryChildAlignment" final="restriction">
878   <xsd:restriction base="xsd:token">
879     <xsd:enumeration value="none"/>
880     <xsd:enumeration value="t"/>
881     <xsd:enumeration value="b"/>
882     <xsd:enumeration value="l"/>
883     <xsd:enumeration value="r"/>
884   </xsd:restriction>
885 </xsd:simpleType>
886 <xsd:simpleType name="ST_LinearDirection" final="restriction">
887   <xsd:restriction base="xsd:token">
888     <xsd:enumeration value="fromL"/>
889     <xsd:enumeration value="fromR"/>
890     <xsd:enumeration value="fromT"/>
891     <xsd:enumeration value="fromB"/>
892   </xsd:restriction>
893 </xsd:simpleType>
894 <xsd:simpleType name="ST_SecondaryLinearDirection" final="restriction">
895   <xsd:restriction base="xsd:token">
896     <xsd:enumeration value="none"/>
897     <xsd:enumeration value="fromL"/>
898     <xsd:enumeration value="fromR"/>
899     <xsd:enumeration value="fromT"/>
900     <xsd:enumeration value="fromB"/>
901   </xsd:restriction>
902 </xsd:simpleType>
903 <xsd:simpleType name="ST_StartingElement" final="restriction">
904   <xsd:restriction base="xsd:token">
905     <xsd:enumeration value="node"/>
906     <xsd:enumeration value="trans"/>
907   </xsd:restriction>
908 </xsd:simpleType>
909 <xsd:simpleType name="ST_RotationPath" final="restriction">
910   <xsd:restriction base="xsd:token">
911     <xsd:enumeration value="none"/>
912     <xsd:enumeration value="alongPath"/>
913   </xsd:restriction>
914 </xsd:simpleType>
915 <xsd:simpleType name="ST_CenterShapeMapping" final="restriction">
916   <xsd:restriction base="xsd:token">
917     <xsd:enumeration value="none"/>
918     <xsd:enumeration value="fNode"/>
919   </xsd:restriction>
920 </xsd:simpleType>
921 <xsd:simpleType name="ST_BendPoint" final="restriction">
922   <xsd:restriction base="xsd:token">
923     <xsd:enumeration value="beg"/>
924     <xsd:enumeration value="def"/>
925     <xsd:enumeration value="end"/>

```



```

926     </xsd:restriction>
927 </xsd:simpleType>
928 <xsd:simpleType name="ST_ConnectorRouting" final="restriction">
929     <xsd:restriction base="xsd:token">
930         <xsd:enumeration value="stra"/>
931         <xsd:enumeration value="bend"/>
932         <xsd:enumeration value="curve"/>
933         <xsd:enumeration value="longCurve"/>
934     </xsd:restriction>
935 </xsd:simpleType>
936 <xsd:simpleType name="ST_ArrowheadStyle" final="restriction">
937     <xsd:restriction base="xsd:token">
938         <xsd:enumeration value="auto"/>
939         <xsd:enumeration value="arr"/>
940         <xsd:enumeration value="noArr"/>
941     </xsd:restriction>
942 </xsd:simpleType>
943 <xsd:simpleType name="ST_ConnectorDimension" final="restriction">
944     <xsd:restriction base="xsd:token">
945         <xsd:enumeration value="1D"/>
946         <xsd:enumeration value="2D"/>
947         <xsd:enumeration value="cust"/>
948     </xsd:restriction>
949 </xsd:simpleType>
950 <xsd:simpleType name="ST_ConnectorPoint" final="restriction">
951     <xsd:restriction base="xsd:token">
952         <xsd:enumeration value="auto"/>
953         <xsd:enumeration value="bCtr"/>
954         <xsd:enumeration value="ctr"/>
955         <xsd:enumeration value="midL"/>
956         <xsd:enumeration value="midR"/>
957         <xsd:enumeration value="tCtr"/>
958         <xsd:enumeration value="bl"/>
959         <xsd:enumeration value="br"/>
960         <xsd:enumeration value="tl"/>
961         <xsd:enumeration value="tr"/>
962         <xsd:enumeration value="radial"/>
963     </xsd:restriction>
964 </xsd:simpleType>
965 <xsd:simpleType name="ST_NodeHorizontalAlignment" final="restriction">
966     <xsd:restriction base="xsd:token">
967         <xsd:enumeration value="l"/>
968         <xsd:enumeration value="ctr"/>
969         <xsd:enumeration value="r"/>
970     </xsd:restriction>
971 </xsd:simpleType>
972 <xsd:simpleType name="ST_NodeVerticalAlignment" final="restriction">
973     <xsd:restriction base="xsd:token">
974         <xsd:enumeration value="t"/>
975         <xsd:enumeration value="mid"/>
976         <xsd:enumeration value="b"/>
977     </xsd:restriction>
978 </xsd:simpleType>

```

```

979 <xsd:simpleType name="ST_FallbackDimension" final="restriction">
980   <xsd:restriction base="xsd:token">
981     <xsd:enumeration value="1D"/>
982     <xsd:enumeration value="2D"/>
983   </xsd:restriction>
984 </xsd:simpleType>
985 <xsd:simpleType name="ST_TextDirection" final="restriction">
986   <xsd:restriction base="xsd:token">
987     <xsd:enumeration value="fromT"/>
988     <xsd:enumeration value="fromB"/>
989   </xsd:restriction>
990 </xsd:simpleType>
991 <xsd:simpleType name="ST_PyramidAccentPosition" final="restriction">
992   <xsd:restriction base="xsd:token">
993     <xsd:enumeration value="bef"/>
994     <xsd:enumeration value="aft"/>
995   </xsd:restriction>
996 </xsd:simpleType>
997 <xsd:simpleType name="ST_PyramidAccentTextMargin" final="restriction">
998   <xsd:restriction base="xsd:token">
999     <xsd:enumeration value="step"/>
1000     <xsd:enumeration value="stack"/>
1001   </xsd:restriction>
1002 </xsd:simpleType>
1003 <xsd:simpleType name="ST_TextBlockDirection" final="restriction">
1004   <xsd:restriction base="xsd:token">
1005     <xsd:enumeration value="horz"/>
1006     <xsd:enumeration value="vert"/>
1007   </xsd:restriction>
1008 </xsd:simpleType>
1009 <xsd:simpleType name="ST_TextAnchorHorizontal" final="restriction">
1010   <xsd:restriction base="xsd:token">
1011     <xsd:enumeration value="none"/>
1012     <xsd:enumeration value="ctr"/>
1013   </xsd:restriction>
1014 </xsd:simpleType>
1015 <xsd:simpleType name="ST_TextAnchorVertical" final="restriction">
1016   <xsd:restriction base="xsd:token">
1017     <xsd:enumeration value="t"/>
1018     <xsd:enumeration value="mid"/>
1019     <xsd:enumeration value="b"/>
1020   </xsd:restriction>
1021 </xsd:simpleType>
1022 <xsd:simpleType name="ST_DiagramTextAlignment" final="restriction">
1023   <xsd:restriction base="xsd:token">
1024     <xsd:enumeration value="l"/>
1025     <xsd:enumeration value="ctr"/>
1026     <xsd:enumeration value="r"/>
1027   </xsd:restriction>
1028 </xsd:simpleType>
1029 <xsd:simpleType name="ST_AutoTextRotation" final="restriction">
1030   <xsd:restriction base="xsd:token">
1031     <xsd:enumeration value="none"/>

```

```

1032         <xsd:enumeration value="upr"/>
1033         <xsd:enumeration value="grav"/>
1034     </xsd:restriction>
1035 </xsd:simpleType>
1036 <xsd:simpleType name="ST_GrowDirection" final="restriction">
1037     <xsd:restriction base="xsd:token">
1038         <xsd:enumeration value="tL"/>
1039         <xsd:enumeration value="tR"/>
1040         <xsd:enumeration value="bL"/>
1041         <xsd:enumeration value="bR"/>
1042     </xsd:restriction>
1043 </xsd:simpleType>
1044 <xsd:simpleType name="ST_FlowDirection" final="restriction">
1045     <xsd:restriction base="xsd:token">
1046         <xsd:enumeration value="row"/>
1047         <xsd:enumeration value="col"/>
1048     </xsd:restriction>
1049 </xsd:simpleType>
1050 <xsd:simpleType name="ST_ContinueDirection" final="restriction">
1051     <xsd:restriction base="xsd:token">
1052         <xsd:enumeration value="revDir"/>
1053         <xsd:enumeration value="sameDir"/>
1054     </xsd:restriction>
1055 </xsd:simpleType>
1056 <xsd:simpleType name="ST_Breakpoint" final="restriction">
1057     <xsd:restriction base="xsd:token">
1058         <xsd:enumeration value="endCnv"/>
1059         <xsd:enumeration value="bal"/>
1060         <xsd:enumeration value="fixed"/>
1061     </xsd:restriction>
1062 </xsd:simpleType>
1063 <xsd:simpleType name="ST_Offset" final="restriction">
1064     <xsd:restriction base="xsd:token">
1065         <xsd:enumeration value="ctr"/>
1066         <xsd:enumeration value="off"/>
1067     </xsd:restriction>
1068 </xsd:simpleType>
1069 <xsd:simpleType name="ST_HierarchyAlignment" final="restriction">
1070     <xsd:restriction base="xsd:token">
1071         <xsd:enumeration value="tL"/>
1072         <xsd:enumeration value="tR"/>
1073         <xsd:enumeration value="tCtrCh"/>
1074         <xsd:enumeration value="tCtrDes"/>
1075         <xsd:enumeration value="bL"/>
1076         <xsd:enumeration value="bR"/>
1077         <xsd:enumeration value="bCtrCh"/>
1078         <xsd:enumeration value="bCtrDes"/>
1079         <xsd:enumeration value="lT"/>
1080         <xsd:enumeration value="lB"/>
1081         <xsd:enumeration value="lCtrCh"/>
1082         <xsd:enumeration value="lCtrDes"/>
1083         <xsd:enumeration value="rT"/>
1084         <xsd:enumeration value="rB"/>

```

```

1085         <xsd:enumeration value="rCtrCh"/>
1086         <xsd:enumeration value="rCtrDes"/>
1087     </xsd:restriction>
1088 </xsd:simpleType>
1089 <xsd:simpleType name="ST_FunctionValue" final="restriction">
1090     <xsd:union memberTypes="xsd:int xsd:boolean ST_Direction ST_HierBranchStyle ST_AnimOneStr
1091         ST_AnimLvlStr ST_ResizeHandlesStr"/>
1092 </xsd:simpleType>
1093 <xsd:simpleType name="ST_VariableType" final="restriction">
1094     <xsd:restriction base="xsd:token">
1095         <xsd:enumeration value="none"/>
1096         <xsd:enumeration value="orgChart"/>
1097         <xsd:enumeration value="chMax"/>
1098         <xsd:enumeration value="chPref"/>
1099         <xsd:enumeration value="bulEnabled"/>
1100         <xsd:enumeration value="dir"/>
1101         <xsd:enumeration value="hierBranch"/>
1102         <xsd:enumeration value="animOne"/>
1103         <xsd:enumeration value="animLvl"/>
1104         <xsd:enumeration value="resizeHandles"/>
1105     </xsd:restriction>
1106 </xsd:simpleType>
1107 <xsd:simpleType name="ST_FunctionArgument" final="restriction">
1108     <xsd:union memberTypes="ST_VariableType"/>
1109 </xsd:simpleType>
1110 <xsd:simpleType name="ST_OutputShapeType" final="restriction">
1111     <xsd:restriction base="xsd:token">
1112         <xsd:enumeration value="none"/>
1113         <xsd:enumeration value="conn"/>
1114     </xsd:restriction>
1115 </xsd:simpleType>
1116 </xsd:schema>

```

## A.6 VML

### A.6.1 VML

This schema is available in the file vml-main.xsd.

```

1 <xsd:schema xmlns="urn:schemas-microsoft-com:vml" xmlns:pvml="urn:schemas-microsoft-
2 com:office:powerpoint" xmlns:o="urn:schemas-microsoft-com:office:office"
3 xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4 xmlns:w="http://schemas.openxmlformats.org/wordprocessingml/2006/main" xmlns:w10="urn:schemas-
5 microsoft-com:office:word"
6 xmlns:r="http://schemas.openxmlformats.org/officeDocument/2006/relationships" xmlns:x="urn:schemas-
7 microsoft-com:office:excel"
8 xmlns:s="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes"
9 targetNamespace="urn:schemas-microsoft-com:vml" elementFormDefault="qualified"
10 attributeFormDefault="unqualified">
11     <xsd:import namespace="urn:schemas-microsoft-com:office:office" schemaLocation="vml-
12         officeDrawing.xsd"/>
13     <xsd:import namespace="http://schemas.openxmlformats.org/wordprocessingml/2006/main"
14         schemaLocation="wml.xsd"/>

```

```

15 <xsd:import namespace="urn:schemas-microsoft-com:office:word" schemaLocation="vml-
16 wordprocessingDrawing.xsd"/>
17 <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/relationships"
18 schemaLocation="shared-relationshipReference.xsd"/>
19 <xsd:import namespace="urn:schemas-microsoft-com:office:excel" schemaLocation="vml-
20 spreadsheetDrawing.xsd"/>
21 <xsd:import namespace="urn:schemas-microsoft-com:office:powerpoint" schemaLocation="vml-
22 presentationDrawing.xsd"/>
23 <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes"
24 schemaLocation="shared-commonSimpleTypes.xsd"/>
25 <xsd:attributeGroup name="AG_Id">
26 <xsd:attribute name="id" type="xsd:string" use="optional"/>
27 </xsd:attributeGroup>
28 <xsd:attributeGroup name="AG_Style">
29 <xsd:attribute name="style" type="xsd:string" use="optional"/>
30 </xsd:attributeGroup>
31 <xsd:attributeGroup name="AG_Type">
32 <xsd:attribute name="type" type="xsd:string" use="optional"/>
33 </xsd:attributeGroup>
34 <xsd:attributeGroup name="AG_Adj">
35 <xsd:attribute name="adj" type="xsd:string" use="optional"/>
36 </xsd:attributeGroup>
37 <xsd:attributeGroup name="AG_Path">
38 <xsd:attribute name="path" type="xsd:string" use="optional"/>
39 </xsd:attributeGroup>
40 <xsd:attributeGroup name="AG_Fill">
41 <xsd:attribute name="filled" type="s:ST TrueFalse" use="optional"/>
42 <xsd:attribute name="fillcolor" type="s:ST ColorType" use="optional"/>
43 </xsd:attributeGroup>
44 <xsd:attributeGroup name="AG_ChromaKey">
45 <xsd:attribute name="chromaKey" type="s:ST ColorType" use="optional"/>
46 </xsd:attributeGroup>
47 <xsd:attributeGroup name="AG_Ext">
48 <xsd:attribute name="ext" form="qualified" type="ST Ext"/>
49 </xsd:attributeGroup>
50 <xsd:attributeGroup name="AG_CoreAttributes">
51 <xsd:attributeGroup ref="AG_Id"/>
52 <xsd:attributeGroup ref="AG_Style"/>
53 <xsd:attribute name="href" type="xsd:string" use="optional"/>
54 <xsd:attribute name="target" type="xsd:string" use="optional"/>
55 <xsd:attribute name="class" type="xsd:string" use="optional"/>
56 <xsd:attribute name="title" type="xsd:string" use="optional"/>
57 <xsd:attribute name="alt" type="xsd:string" use="optional"/>
58 <xsd:attribute name="coordsize" type="xsd:string" use="optional"/>
59 <xsd:attribute name="coordorigin" type="xsd:string" use="optional"/>
60 <xsd:attribute name="wrapcoords" type="xsd:string" use="optional"/>
61 <xsd:attribute name="print" type="s:ST TrueFalse" use="optional"/>
62 </xsd:attributeGroup>
63 <xsd:attributeGroup name="AG_ShapeAttributes">
64 <xsd:attributeGroup ref="AG_ChromaKey"/>
65 <xsd:attributeGroup ref="AG_Fill"/>
66 <xsd:attribute name="opacity" type="xsd:string" use="optional"/>
67 <xsd:attribute name="stroked" type="s:ST TrueFalse" use="optional"/>

```

```

68      <xsd:attribute name="strokecolor" type="s:ST_ColorType" use="optional"/>
69      <xsd:attribute name="strokeweight" type="xsd:string" use="optional"/>
70      <xsd:attribute name="insetpen" type="s:ST_TrueFalse" use="optional"/>
71    </xsd:attributeGroup>
72    <xsd:attributeGroup name="AG_OfficeCoreAttributes">
73      <xsd:attribute ref="o:spid"/>
74      <xsd:attribute ref="o:oned"/>
75      <xsd:attribute ref="o:regroupid"/>
76      <xsd:attribute ref="o:doubleclicknotify"/>
77      <xsd:attribute ref="o:button"/>
78      <xsd:attribute ref="o:userhidden"/>
79      <xsd:attribute ref="o:bullet"/>
80      <xsd:attribute ref="o:hr"/>
81      <xsd:attribute ref="o:hrstd"/>
82      <xsd:attribute ref="o:hrnoshade"/>
83      <xsd:attribute ref="o:hrpct"/>
84      <xsd:attribute ref="o:hralign"/>
85      <xsd:attribute ref="o:allowincell"/>
86      <xsd:attribute ref="o:allowoverlap"/>
87      <xsd:attribute ref="o:userdrawn"/>
88      <xsd:attribute ref="o:bordertopcolor"/>
89      <xsd:attribute ref="o:borderleftcolor"/>
90      <xsd:attribute ref="o:borderbottomcolor"/>
91      <xsd:attribute ref="o:borderrightcolor"/>
92      <xsd:attribute ref="o:dgmLayout"/>
93      <xsd:attribute ref="o:dgmnodekind"/>
94      <xsd:attribute ref="o:dgmLayoutmru"/>
95      <xsd:attribute ref="o:insetmode"/>
96    </xsd:attributeGroup>
97    <xsd:attributeGroup name="AG_OfficeShapeAttributes">
98      <xsd:attribute ref="o:spt"/>
99      <xsd:attribute ref="o:connectortype"/>
100     <xsd:attribute ref="o:bwmode"/>
101     <xsd:attribute ref="o:bwpuke"/>
102     <xsd:attribute ref="o:bwnormal"/>
103     <xsd:attribute ref="o:forcedash"/>
104     <xsd:attribute ref="o:oleicon"/>
105     <xsd:attribute ref="o:ole"/>
106     <xsd:attribute ref="o:preferrelative"/>
107     <xsd:attribute ref="o:cliptowrap"/>
108     <xsd:attribute ref="o:clip"/>
109   </xsd:attributeGroup>
110   <xsd:attributeGroup name="AG_AllCoreAttributes">
111     <xsd:attributeGroup ref="AG_CoreAttributes"/>
112     <xsd:attributeGroup ref="AG_OfficeCoreAttributes"/>
113   </xsd:attributeGroup>
114   <xsd:attributeGroup name="AG_AllShapeAttributes">
115     <xsd:attributeGroup ref="AG_ShapeAttributes"/>
116     <xsd:attributeGroup ref="AG_OfficeShapeAttributes"/>
117   </xsd:attributeGroup>
118   <xsd:attributeGroup name="AG_ImageAttributes">
119     <xsd:attribute name="src" type="xsd:string" use="optional"/>
120     <xsd:attribute name="cropleft" type="xsd:string" use="optional"/>

```

```

121 <xsd:attribute name="croptop" type="xsd:string" use="optional"/>
122 <xsd:attribute name="cropright" type="xsd:string" use="optional"/>
123 <xsd:attribute name="cropbottom" type="xsd:string" use="optional"/>
124 <xsd:attribute name="gain" type="xsd:string" use="optional"/>
125 <xsd:attribute name="blacklevel" type="xsd:string" use="optional"/>
126 <xsd:attribute name="gamma" type="xsd:string" use="optional"/>
127 <xsd:attribute name="grayscale" type="s:ST TrueFalse" use="optional"/>
128 <xsd:attribute name="bilevel" type="s:ST TrueFalse" use="optional"/>
129 </xsd:attributeGroup>
130 <xsd:attributeGroup name="AG_StrokeAttributes">
131 <xsd:attribute name="on" type="s:ST TrueFalse" use="optional"/>
132 <xsd:attribute name="weight" type="xsd:string" use="optional"/>
133 <xsd:attribute name="color" type="s:ST ColorType" use="optional"/>
134 <xsd:attribute name="opacity" type="xsd:string" use="optional"/>
135 <xsd:attribute name="linestyle" type="ST StrokeLineStyle" use="optional"/>
136 <xsd:attribute name="miterlimit" type="xsd:decimal" use="optional"/>
137 <xsd:attribute name="joinstyle" type="ST StrokeJoinStyle" use="optional"/>
138 <xsd:attribute name="endcap" type="ST StrokeEndCap" use="optional"/>
139 <xsd:attribute name="dashstyle" type="xsd:string" use="optional"/>
140 <xsd:attribute name="filltype" type="ST FillType" use="optional"/>
141 <xsd:attribute name="src" type="xsd:string" use="optional"/>
142 <xsd:attribute name="imageaspect" type="ST ImageAspect" use="optional"/>
143 <xsd:attribute name="imagesize" type="xsd:string" use="optional"/>
144 <xsd:attribute name="imagealignshape" type="s:ST TrueFalse" use="optional"/>
145 <xsd:attribute name="color2" type="s:ST ColorType" use="optional"/>
146 <xsd:attribute name="startarrow" type="ST StrokeArrowType" use="optional"/>
147 <xsd:attribute name="startarrowwidth" type="ST StrokeArrowWidth" use="optional"/>
148 <xsd:attribute name="startarrowlength" type="ST StrokeArrowLength" use="optional"/>
149 <xsd:attribute name="endarrow" type="ST StrokeArrowType" use="optional"/>
150 <xsd:attribute name="endarrowwidth" type="ST StrokeArrowWidth" use="optional"/>
151 <xsd:attribute name="endarrowlength" type="ST StrokeArrowLength" use="optional"/>
152 <xsd:attribute ref="o:href"/>
153 <xsd:attribute ref="o:althref"/>
154 <xsd:attribute ref="o:title"/>
155 <xsd:attribute ref="o:forcedash"/>
156 <xsd:attribute ref="r:id" use="optional"/>
157 <xsd:attribute name="insetpen" type="s:ST TrueFalse" use="optional"/>
158 <xsd:attribute ref="o:relid"/>
159 </xsd:attributeGroup>
160 <xsd:group name="EG_ShapeElements">
161 <xsd:choice>
162 <xsd:element ref="path"/>
163 <xsd:element ref="formulas"/>
164 <xsd:element ref="handles"/>
165 <xsd:element ref="fill"/>
166 <xsd:element ref="stroke"/>
167 <xsd:element ref="shadow"/>
168 <xsd:element ref="textbox"/>
169 <xsd:element ref="textpath"/>
170 <xsd:element ref="imagedata"/>
171 <xsd:element ref="o:skew"/>
172 <xsd:element ref="o:extrusion"/>
173 <xsd:element ref="o:callout"/>

```



```

174     <xsd:element ref="o:lock"/>
175     <xsd:element ref="o:clippath"/>
176     <xsd:element ref="o:signatureline"/>
177     <xsd:element ref="w10:wrap"/>
178     <xsd:element ref="w10:anchorlock"/>
179     <xsd:element ref="w10:bordertop"/>
180     <xsd:element ref="w10:borderbottom"/>
181     <xsd:element ref="w10:borderleft"/>
182     <xsd:element ref="w10:borderright"/>
183     <xsd:element ref="x:ClientData" minOccurs="0"/>
184     <xsd:element ref="pvm1:textdata" minOccurs="0"/>
185   </xsd:choice>
186 </xsd:group>
187 <xsd:element name="shape" type="CT_Shape"/>
188 <xsd:element name="shapetype" type="CT_Shapetype"/>
189 <xsd:element name="group" type="CT_Group"/>
190 <xsd:element name="background" type="CT_Background"/>
191 <xsd:complexType name="CT_Shape">
192   <xsd:choice maxOccurs="unbounded">
193     <xsd:group ref="EG_ShapeElements"/>
194     <xsd:element ref="o:ink"/>
195     <xsd:element ref="pvm1:iscomment"/>
196     <xsd:element ref="o:equationxml"/>
197   </xsd:choice>
198   <xsd:attributeGroup ref="AG_AllCoreAttributes"/>
199   <xsd:attributeGroup ref="AG_AllShapeAttributes"/>
200   <xsd:attributeGroup ref="AG_Type"/>
201   <xsd:attributeGroup ref="AG_Adj"/>
202   <xsd:attributeGroup ref="AG_Path"/>
203   <xsd:attribute ref="o:gfxdata"/>
204   <xsd:attribute name="equationxml" type="xsd:string" use="optional"/>
205 </xsd:complexType>
206 <xsd:complexType name="CT_Shapetype">
207   <xsd:sequence>
208     <xsd:group ref="EG_ShapeElements" minOccurs="0" maxOccurs="unbounded"/>
209     <xsd:element ref="o:complex" minOccurs="0"/>
210   </xsd:sequence>
211   <xsd:attributeGroup ref="AG_AllCoreAttributes"/>
212   <xsd:attributeGroup ref="AG_AllShapeAttributes"/>
213   <xsd:attributeGroup ref="AG_Adj"/>
214   <xsd:attributeGroup ref="AG_Path"/>
215   <xsd:attribute ref="o:master"/>
216 </xsd:complexType>
217 <xsd:complexType name="CT_Group">
218   <xsd:choice maxOccurs="unbounded">
219     <xsd:group ref="EG_ShapeElements"/>
220     <xsd:element ref="group"/>
221     <xsd:element ref="shape"/>
222     <xsd:element ref="shapetype"/>
223     <xsd:element ref="arc"/>
224     <xsd:element ref="curve"/>
225     <xsd:element ref="image"/>
226     <xsd:element ref="line"/>

```



```

227     <xsd:element ref="oval"/>
228     <xsd:element ref="polyline"/>
229     <xsd:element ref="rect"/>
230     <xsd:element ref="roundrect"/>
231     <xsd:element ref="o:diagram"/>
232 </xsd:choice>
233 <xsd:attributeGroup ref="AG_AllCoreAttributes"/>
234 <xsd:attributeGroup ref="AG_Fill"/>
235 <xsd:attribute name="editas" type="ST_EditAs" use="optional"/>
236 <xsd:attribute ref="o:tableproperties"/>
237 <xsd:attribute ref="o:tablelimits"/>
238 </xsd:complexType>
239 <xsd:complexType name="CT_Background">
240     <xsd:sequence>
241         <xsd:element ref="fill" minOccurs="0"/>
242     </xsd:sequence>
243     <xsd:attributeGroup ref="AG_Id"/>
244     <xsd:attributeGroup ref="AG_Fill"/>
245     <xsd:attribute ref="o:bwmode"/>
246     <xsd:attribute ref="o:bwpure"/>
247     <xsd:attribute ref="o:bwnormal"/>
248     <xsd:attribute ref="o:targetscreensize"/>
249 </xsd:complexType>
250 <xsd:element name="fill" type="CT_Fill"/>
251 <xsd:element name="formulas" type="CT_Formulas"/>
252 <xsd:element name="handles" type="CT_Handles"/>
253 <xsd:element name="imagedata" type="CT_ImageData"/>
254 <xsd:element name="path" type="CT_Path"/>
255 <xsd:element name="textbox" type="CT_Textbox"/>
256 <xsd:element name="shadow" type="CT_Shadow"/>
257 <xsd:element name="stroke" type="CT_Stroke"/>
258 <xsd:element name="textpath" type="CT_TextPath"/>
259 <xsd:complexType name="CT_Fill">
260     <xsd:sequence>
261         <xsd:element ref="o:fill" minOccurs="0"/>
262     </xsd:sequence>
263     <xsd:attributeGroup ref="AG_Id"/>
264     <xsd:attribute name="type" type="ST_FillType" use="optional"/>
265     <xsd:attribute name="on" type="s:ST_TrueFalse" use="optional"/>
266     <xsd:attribute name="color" type="s:ST_ColorType" use="optional"/>
267     <xsd:attribute name="opacity" type="xsd:string" use="optional"/>
268     <xsd:attribute name="color2" type="s:ST_ColorType" use="optional"/>
269     <xsd:attribute name="src" type="xsd:string" use="optional"/>
270     <xsd:attribute ref="o:href"/>
271     <xsd:attribute ref="o:althref"/>
272     <xsd:attribute name="size" type="xsd:string" use="optional"/>
273     <xsd:attribute name="origin" type="xsd:string" use="optional"/>
274     <xsd:attribute name="position" type="xsd:string" use="optional"/>
275     <xsd:attribute name="aspect" type="ST_ImageAspect" use="optional"/>
276     <xsd:attribute name="colors" type="xsd:string" use="optional"/>
277     <xsd:attribute name="angle" type="xsd:decimal" use="optional"/>
278     <xsd:attribute name="alignshape" type="s:ST_TrueFalse" use="optional"/>
279     <xsd:attribute name="focus" type="xsd:string" use="optional"/>

```

```

280     <xsd:attribute name="focussize" type="xsd:string" use="optional"/>
281     <xsd:attribute name="focusposition" type="xsd:string" use="optional"/>
282     <xsd:attribute name="method" type="ST_FillMethod" use="optional"/>
283     <xsd:attribute ref="o:detectmouseclick"/>
284     <xsd:attribute ref="o:title"/>
285     <xsd:attribute ref="o:opacity2"/>
286     <xsd:attribute name="recolor" type="s:ST_TrueFalse" use="optional"/>
287     <xsd:attribute name="rotate" type="s:ST_TrueFalse" use="optional"/>
288     <xsd:attribute ref="r:id" use="optional"/>
289     <xsd:attribute ref="o:relic" use="optional"/>
290 </xsd:complexType>
291 <xsd:complexType name="CT_Formulas">
292     <xsd:sequence>
293         <xsd:element name="f" type="CT_F" minOccurs="0" maxOccurs="unbounded"/>
294     </xsd:sequence>
295 </xsd:complexType>
296 <xsd:complexType name="CT_F">
297     <xsd:attribute name="eqn" type="xsd:string"/>
298 </xsd:complexType>
299 <xsd:complexType name="CT_Handles">
300     <xsd:sequence>
301         <xsd:element name="h" type="CT_H" minOccurs="0" maxOccurs="unbounded"/>
302     </xsd:sequence>
303 </xsd:complexType>
304 <xsd:complexType name="CT_H">
305     <xsd:attribute name="position" type="xsd:string"/>
306     <xsd:attribute name="polar" type="xsd:string"/>
307     <xsd:attribute name="map" type="xsd:string"/>
308     <xsd:attribute name="invx" type="s:ST_TrueFalse"/>
309     <xsd:attribute name="invy" type="s:ST_TrueFalse"/>
310     <xsd:attribute name="switch" type="s:ST_TrueFalseBlank"/>
311     <xsd:attribute name="xrange" type="xsd:string"/>
312     <xsd:attribute name="yrange" type="xsd:string"/>
313     <xsd:attribute name="radiusrange" type="xsd:string"/>
314 </xsd:complexType>
315 <xsd:complexType name="CT_ImageData">
316     <xsd:attributeGroup ref="AG_Id"/>
317     <xsd:attributeGroup ref="AG_ImageAttributes"/>
318     <xsd:attributeGroup ref="AG_Chromakey"/>
319     <xsd:attribute name="embosscolor" type="s:ST_ColorType" use="optional"/>
320     <xsd:attribute name="recolortarget" type="s:ST_ColorType"/>
321     <xsd:attribute ref="o:href"/>
322     <xsd:attribute ref="o:althref"/>
323     <xsd:attribute ref="o:title"/>
324     <xsd:attribute ref="o:oleid"/>
325     <xsd:attribute ref="o:detectmouseclick"/>
326     <xsd:attribute ref="o:movie"/>
327     <xsd:attribute ref="o:relic"/>
328     <xsd:attribute ref="r:id"/>
329     <xsd:attribute ref="r:pict"/>
330     <xsd:attribute ref="r:href"/>
331 </xsd:complexType>
332 <xsd:complexType name="CT_Path">

```

```

333     <xsd:attributeGroup ref="AG_Id"/>
334     <xsd:attribute name="v" type="xsd:string" use="optional"/>
335     <xsd:attribute name="limo" type="xsd:string" use="optional"/>
336     <xsd:attribute name="textboxrect" type="xsd:string" use="optional"/>
337     <xsd:attribute name="fillok" type="s:ST TrueFalse" use="optional"/>
338     <xsd:attribute name="strokeok" type="s:ST TrueFalse" use="optional"/>
339     <xsd:attribute name="shadowok" type="s:ST TrueFalse" use="optional"/>
340     <xsd:attribute name="arrowok" type="s:ST TrueFalse" use="optional"/>
341     <xsd:attribute name="gradientshapeok" type="s:ST TrueFalse" use="optional"/>
342     <xsd:attribute name="textpathok" type="s:ST TrueFalse" use="optional"/>
343     <xsd:attribute name="insetpenok" type="s:ST TrueFalse" use="optional"/>
344     <xsd:attribute ref="o:connecttype"/>
345     <xsd:attribute ref="o:connectlocs"/>
346     <xsd:attribute ref="o:connectangles"/>
347     <xsd:attribute ref="o:extrusionok"/>
348 </xsd:complexType>
349 <xsd:complexType name="CT_Shadow">
350     <xsd:attributeGroup ref="AG_Id"/>
351     <xsd:attribute name="on" type="s:ST TrueFalse" use="optional"/>
352     <xsd:attribute name="type" type="ST_ShadowType" use="optional"/>
353     <xsd:attribute name="obscured" type="s:ST TrueFalse" use="optional"/>
354     <xsd:attribute name="color" type="s:ST ColorType" use="optional"/>
355     <xsd:attribute name="opacity" type="xsd:string" use="optional"/>
356     <xsd:attribute name="offset" type="xsd:string" use="optional"/>
357     <xsd:attribute name="color2" type="s:ST ColorType" use="optional"/>
358     <xsd:attribute name="offset2" type="xsd:string" use="optional"/>
359     <xsd:attribute name="origin" type="xsd:string" use="optional"/>
360     <xsd:attribute name="matrix" type="xsd:string" use="optional"/>
361 </xsd:complexType>
362 <xsd:complexType name="CT_Stroke">
363     <xsd:sequence>
364         <xsd:element ref="o:left" minOccurs="0"/>
365         <xsd:element ref="o:top" minOccurs="0"/>
366         <xsd:element ref="o:right" minOccurs="0"/>
367         <xsd:element ref="o:bottom" minOccurs="0"/>
368         <xsd:element ref="o:column" minOccurs="0"/>
369     </xsd:sequence>
370     <xsd:attributeGroup ref="AG_Id"/>
371     <xsd:attributeGroup ref="AG_StrokeAttributes"/>
372 </xsd:complexType>
373 <xsd:complexType name="CT_Textbox">
374     <xsd:choice>
375         <xsd:element ref="w:txbxContent" minOccurs="0"/>
376     </xsd:choice>
377     <xsd:attributeGroup ref="AG_Id"/>
378     <xsd:attributeGroup ref="AG_Style"/>
379     <xsd:attribute name="inset" type="xsd:string" use="optional"/>
380     <xsd:attribute ref="o:singleclick"/>
381     <xsd:attribute ref="o:insetmode"/>
382 </xsd:complexType>
383 <xsd:complexType name="CT_TextPath">
384     <xsd:attributeGroup ref="AG_Id"/>
385     <xsd:attributeGroup ref="AG_Style"/>

```

```

386     <xsd:attribute name="on" type="s:ST TrueFalse" use="optional"/>
387     <xsd:attribute name="fitshape" type="s:ST TrueFalse" use="optional"/>
388     <xsd:attribute name="fitpath" type="s:ST TrueFalse" use="optional"/>
389     <xsd:attribute name="trim" type="s:ST TrueFalse" use="optional"/>
390     <xsd:attribute name="xscale" type="s:ST TrueFalse" use="optional"/>
391     <xsd:attribute name="string" type="xsd:string" use="optional"/>
392 </xsd:complexType>
393 <xsd:element name="arc" type="CT_Arc"/>
394 <xsd:element name="curve" type="CT_Curve"/>
395 <xsd:element name="image" type="CT_Image"/>
396 <xsd:element name="line" type="CT_Line"/>
397 <xsd:element name="oval" type="CT_Oval"/>
398 <xsd:element name="polyline" type="CT_PolyLine"/>
399 <xsd:element name="rect" type="CT_Rect"/>
400 <xsd:element name="roundrect" type="CT_RoundRect"/>
401 <xsd:complexType name="CT_Arc">
402     <xsd:sequence>
403         <xsd:group ref="EG_ShapeElements" minOccurs="0" maxOccurs="unbounded"/>
404     </xsd:sequence>
405     <xsd:attributeGroup ref="AG_AllCoreAttributes"/>
406     <xsd:attributeGroup ref="AG_AllShapeAttributes"/>
407     <xsd:attribute name="startAngle" type="xsd:decimal" use="optional"/>
408     <xsd:attribute name="endAngle" type="xsd:decimal" use="optional"/>
409 </xsd:complexType>
410 <xsd:complexType name="CT_Curve">
411     <xsd:sequence>
412         <xsd:group ref="EG_ShapeElements" minOccurs="0" maxOccurs="unbounded"/>
413     </xsd:sequence>
414     <xsd:attributeGroup ref="AG_AllCoreAttributes"/>
415     <xsd:attributeGroup ref="AG_AllShapeAttributes"/>
416     <xsd:attribute name="from" type="xsd:string" use="optional"/>
417     <xsd:attribute name="control1" type="xsd:string" use="optional"/>
418     <xsd:attribute name="control2" type="xsd:string" use="optional"/>
419     <xsd:attribute name="to" type="xsd:string" use="optional"/>
420 </xsd:complexType>
421 <xsd:complexType name="CT_Image">
422     <xsd:sequence>
423         <xsd:group ref="EG_ShapeElements" minOccurs="0" maxOccurs="unbounded"/>
424     </xsd:sequence>
425     <xsd:attributeGroup ref="AG_AllCoreAttributes"/>
426     <xsd:attributeGroup ref="AG_AllShapeAttributes"/>
427     <xsd:attributeGroup ref="AG_ImageAttributes"/>
428 </xsd:complexType>
429 <xsd:complexType name="CT_Line">
430     <xsd:sequence>
431         <xsd:group ref="EG_ShapeElements" minOccurs="0" maxOccurs="unbounded"/>
432     </xsd:sequence>
433     <xsd:attributeGroup ref="AG_AllCoreAttributes"/>
434     <xsd:attributeGroup ref="AG_AllShapeAttributes"/>
435     <xsd:attribute name="from" type="xsd:string" use="optional"/>
436     <xsd:attribute name="to" type="xsd:string" use="optional"/>
437 </xsd:complexType>
438 <xsd:complexType name="CT_Oval">

```

```

439     <xsd:choice maxOccurs="unbounded">
440         <xsd:group ref="EG_ShapeElements" minOccurs="0" maxOccurs="unbounded"/>
441     </xsd:choice>
442     <xsd:attributeGroup ref="AG_AllCoreAttributes"/>
443     <xsd:attributeGroup ref="AG_AllShapeAttributes"/>
444 </xsd:complexType>
445 <xsd:complexType name="CT_PolyLine">
446     <xsd:choice minOccurs="0" maxOccurs="unbounded">
447         <xsd:group ref="EG_ShapeElements"/>
448         <xsd:element ref="o:ink"/>
449     </xsd:choice>
450     <xsd:attributeGroup ref="AG_AllCoreAttributes"/>
451     <xsd:attributeGroup ref="AG_AllShapeAttributes"/>
452     <xsd:attribute name="points" type="xsd:string" use="optional"/>
453 </xsd:complexType>
454 <xsd:complexType name="CT_Rect">
455     <xsd:choice maxOccurs="unbounded">
456         <xsd:group ref="EG_ShapeElements" minOccurs="0" maxOccurs="unbounded"/>
457     </xsd:choice>
458     <xsd:attributeGroup ref="AG_AllCoreAttributes"/>
459     <xsd:attributeGroup ref="AG_AllShapeAttributes"/>
460 </xsd:complexType>
461 <xsd:complexType name="CT_RoundRect">
462     <xsd:choice maxOccurs="unbounded">
463         <xsd:group ref="EG_ShapeElements" minOccurs="0" maxOccurs="unbounded"/>
464     </xsd:choice>
465     <xsd:attributeGroup ref="AG_AllCoreAttributes"/>
466     <xsd:attributeGroup ref="AG_AllShapeAttributes"/>
467     <xsd:attribute name="arcsz" type="xsd:string" use="optional"/>
468 </xsd:complexType>
469 <xsd:simpleType name="ST_Ext">
470     <xsd:restriction base="xsd:string">
471         <xsd:enumeration value="view"/>
472         <xsd:enumeration value="edit"/>
473         <xsd:enumeration value="backwardCompatible"/>
474     </xsd:restriction>
475 </xsd:simpleType>
476 <xsd:simpleType name="ST_FillType">
477     <xsd:restriction base="xsd:string">
478         <xsd:enumeration value="solid"/>
479         <xsd:enumeration value="gradient"/>
480         <xsd:enumeration value="gradientRadial"/>
481         <xsd:enumeration value="tile"/>
482         <xsd:enumeration value="pattern"/>
483         <xsd:enumeration value="frame"/>
484     </xsd:restriction>
485 </xsd:simpleType>
486 <xsd:simpleType name="ST_FillMethod">
487     <xsd:restriction base="xsd:string">
488         <xsd:enumeration value="none"/>
489         <xsd:enumeration value="linear"/>
490         <xsd:enumeration value="sigma"/>
491         <xsd:enumeration value="any"/>

```

```

492     <xsd:enumeration value="linear sigma"/>
493   </xsd:restriction>
494 </xsd:simpleType>
495 <xsd:simpleType name="ST_ShadowType">
496   <xsd:restriction base="xsd:string">
497     <xsd:enumeration value="single"/>
498     <xsd:enumeration value="double"/>
499     <xsd:enumeration value="emboss"/>
500     <xsd:enumeration value="perspective"/>
501   </xsd:restriction>
502 </xsd:simpleType>
503 <xsd:simpleType name="ST_StrokeLineStyle">
504   <xsd:restriction base="xsd:string">
505     <xsd:enumeration value="single"/>
506     <xsd:enumeration value="thinThin"/>
507     <xsd:enumeration value="thinThick"/>
508     <xsd:enumeration value="thickThin"/>
509     <xsd:enumeration value="thickBetweenThin"/>
510   </xsd:restriction>
511 </xsd:simpleType>
512 <xsd:simpleType name="ST_StrokeJoinStyle">
513   <xsd:restriction base="xsd:string">
514     <xsd:enumeration value="round"/>
515     <xsd:enumeration value="bevel"/>
516     <xsd:enumeration value="miter"/>
517   </xsd:restriction>
518 </xsd:simpleType>
519 <xsd:simpleType name="ST_StrokeEndCap">
520   <xsd:restriction base="xsd:string">
521     <xsd:enumeration value="flat"/>
522     <xsd:enumeration value="square"/>
523     <xsd:enumeration value="round"/>
524   </xsd:restriction>
525 </xsd:simpleType>
526 <xsd:simpleType name="ST_StrokeArrowLength">
527   <xsd:restriction base="xsd:string">
528     <xsd:enumeration value="short"/>
529     <xsd:enumeration value="medium"/>
530     <xsd:enumeration value="long"/>
531   </xsd:restriction>
532 </xsd:simpleType>
533 <xsd:simpleType name="ST_StrokeArrowWidth">
534   <xsd:restriction base="xsd:string">
535     <xsd:enumeration value="narrow"/>
536     <xsd:enumeration value="medium"/>
537     <xsd:enumeration value="wide"/>
538   </xsd:restriction>
539 </xsd:simpleType>
540 <xsd:simpleType name="ST_StrokeArrowType">
541   <xsd:restriction base="xsd:string">
542     <xsd:enumeration value="none"/>
543     <xsd:enumeration value="block"/>
544     <xsd:enumeration value="classic"/>

```

```

545     <xsd:enumeration value="oval"/>
546     <xsd:enumeration value="diamond"/>
547     <xsd:enumeration value="open"/>
548   </xsd:restriction>
549 </xsd:simpleType>
550 <xsd:simpleType name="ST_ImageAspect">
551   <xsd:restriction base="xsd:string">
552     <xsd:enumeration value="ignore"/>
553     <xsd:enumeration value="atMost"/>
554     <xsd:enumeration value="atLeast"/>
555   </xsd:restriction>
556 </xsd:simpleType>
557 <xsd:simpleType name="ST_EditAs">
558   <xsd:restriction base="xsd:string">
559     <xsd:enumeration value="canvas"/>
560     <xsd:enumeration value="orgchart"/>
561     <xsd:enumeration value="radial"/>
562     <xsd:enumeration value="cycle"/>
563     <xsd:enumeration value="stacked"/>
564     <xsd:enumeration value="venn"/>
565     <xsd:enumeration value="bullseye"/>
566   </xsd:restriction>
567 </xsd:simpleType>
568 </xsd:schema>

```

## A.6.2 VML - Office Drawing

This schema is available in the file vml-officeDrawing.xsd.

```

1 <xsd:schema xmlns="urn:schemas-microsoft-com:office:office" xmlns:v="urn:schemas-microsoft-com:vml"
2   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
3   xmlns:r="http://schemas.openxmlformats.org/officeDocument/2006/relationships"
4   xmlns:s="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes"
5   targetNamespace="urn:schemas-microsoft-com:office:office" elementFormDefault="qualified"
6   attributeFormDefault="unqualified">
7   <xsd:import namespace="urn:schemas-microsoft-com:vml" schemaLocation="vml-main.xsd"/>
8   <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/relationships"
9     schemaLocation="shared-relationshipReference.xsd"/>
10  <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes"
11    schemaLocation="shared-commonSimpleTypes.xsd"/>
12  <xsd:attribute name="bwmode" type="ST_BWMode"/>
13  <xsd:attribute name="bwpure" type="ST_BWMode"/>
14  <xsd:attribute name="bwnormal" type="ST_BWMode"/>
15  <xsd:attribute name="targetscreenSize" type="ST_ScreenSize"/>
16  <xsd:attribute name="insetmode" type="ST_InsetMode" default="custom"/>
17  <xsd:attribute name="spt" type="xsd:float"/>
18  <xsd:attribute name="wrapcoords" type="xsd:string"/>
19  <xsd:attribute name="oned" type="s:ST_TrueFalse"/>
20  <xsd:attribute name="regroupid" type="xsd:integer"/>
21  <xsd:attribute name="doubleclicknotify" type="s:ST_TrueFalse"/>
22  <xsd:attribute name="connectortype" type="ST_ConnectorType" default="straight"/>
23  <xsd:attribute name="button" type="s:ST_TrueFalse"/>
24  <xsd:attribute name="userhidden" type="s:ST_TrueFalse"/>

```



```

25 <xsd:attribute name="forcedash" type="s:ST TrueFalse"/>
26 <xsd:attribute name="oleicon" type="s:ST TrueFalse"/>
27 <xsd:attribute name="ole" type="s:ST TrueFalseBlank"/>
28 <xsd:attribute name="preferrelative" type="s:ST TrueFalse"/>
29 <xsd:attribute name="cliptowrap" type="s:ST TrueFalse"/>
30 <xsd:attribute name="clip" type="s:ST TrueFalse"/>
31 <xsd:attribute name="bullet" type="s:ST TrueFalse"/>
32 <xsd:attribute name="hr" type="s:ST TrueFalse"/>
33 <xsd:attribute name="hrstd" type="s:ST TrueFalse"/>
34 <xsd:attribute name="hrnoshade" type="s:ST TrueFalse"/>
35 <xsd:attribute name="hrpct" type="xsd:float"/>
36 <xsd:attribute name="hralign" type="ST HrAlign" default="left"/>
37 <xsd:attribute name="allowincell" type="s:ST TrueFalse"/>
38 <xsd:attribute name="allowoverlap" type="s:ST TrueFalse"/>
39 <xsd:attribute name="userdrawn" type="s:ST TrueFalse"/>
40 <xsd:attribute name="bordertopcolor" type="xsd:string"/>
41 <xsd:attribute name="borderleftcolor" type="xsd:string"/>
42 <xsd:attribute name="borderbottomcolor" type="xsd:string"/>
43 <xsd:attribute name="borderrightcolor" type="xsd:string"/>
44 <xsd:attribute name="connecttype" type="ST ConnectType"/>
45 <xsd:attribute name="connectlocs" type="xsd:string"/>
46 <xsd:attribute name="connectangles" type="xsd:string"/>
47 <xsd:attribute name="master" type="xsd:string"/>
48 <xsd:attribute name="extrusionok" type="s:ST TrueFalse"/>
49 <xsd:attribute name="href" type="xsd:string"/>
50 <xsd:attribute name="althref" type="xsd:string"/>
51 <xsd:attribute name="title" type="xsd:string"/>
52 <xsd:attribute name="singleclick" type="s:ST TrueFalse"/>
53 <xsd:attribute name="oleid" type="xsd:float"/>
54 <xsd:attribute name="detectmouseclick" type="s:ST TrueFalse"/>
55 <xsd:attribute name="movie" type="xsd:float"/>
56 <xsd:attribute name="spid" type="xsd:string"/>
57 <xsd:attribute name="opacity2" type="xsd:string"/>
58 <xsd:attribute name="relid" type="r:ST RelationshipId"/>
59 <xsd:attribute name="dgmlayout" type="ST DiagramLayout"/>
60 <xsd:attribute name="dgmnodekind" type="xsd:integer"/>
61 <xsd:attribute name="dgmlayoutmru" type="ST DiagramLayout"/>
62 <xsd:attribute name="gfxdata" type="xsd:base64Binary"/>
63 <xsd:attribute name="tableproperties" type="xsd:string"/>
64 <xsd:attribute name="tablelimits" type="xsd:string"/>
65 <xsd:element name="shapedefaults" type="CT ShapeDefaults"/>
66 <xsd:element name="shapelayout" type="CT ShapeLayout"/>
67 <xsd:element name="signatureline" type="CT SignatureLine"/>
68 <xsd:element name="ink" type="CT Ink"/>
69 <xsd:element name="diagram" type="CT Diagram"/>
70 <xsd:element name="equationxml" type="CT EquationXml"/>
71 <xsd:complexType name="CT_ShapeDefaults">
72   <xsd:all minOccurs="0">
73     <xsd:element ref="v:fill" minOccurs="0"/>
74     <xsd:element ref="v:stroke" minOccurs="0"/>
75     <xsd:element ref="v:textbox" minOccurs="0"/>
76     <xsd:element ref="v:shadow" minOccurs="0"/>
77     <xsd:element ref="skew" minOccurs="0"/>

```



```

78     <xsd:element ref="extrusion" minOccurs="0"/>
79     <xsd:element ref="callout" minOccurs="0"/>
80     <xsd:element ref="lock" minOccurs="0"/>
81     <xsd:element name="colormru" minOccurs="0" type="CT_ColorMru"/>
82     <xsd:element name="colormenu" minOccurs="0" type="CT_ColorMenu"/>
83 </xsd:all>
84 <xsd:attributeGroup ref="v:AG_Ext"/>
85 <xsd:attribute name="spidmax" type="xsd:integer" use="optional"/>
86 <xsd:attribute name="style" type="xsd:string" use="optional"/>
87 <xsd:attribute name="fill" type="s:ST_TrueFalse" use="optional"/>
88 <xsd:attribute name="fillcolor" type="s:ST_ColorType" use="optional"/>
89 <xsd:attribute name="stroke" type="s:ST_TrueFalse" use="optional"/>
90 <xsd:attribute name="strokecolor" type="s:ST_ColorType"/>
91 <xsd:attribute name="allowincell" form="qualified" type="s:ST_TrueFalse"/>
92 </xsd:complexType>
93 <xsd:complexType name="CT_Ink">
94     <xsd:sequence/>
95     <xsd:attribute name="i" type="xsd:string"/>
96     <xsd:attribute name="annotation" type="s:ST_TrueFalse"/>
97     <xsd:attribute name="contentType" type="ST_ContentType" use="optional"/>
98 </xsd:complexType>
99 <xsd:complexType name="CT_SignatureLine">
100     <xsd:attributeGroup ref="v:AG_Ext"/>
101     <xsd:attribute name="issignatureline" type="s:ST_TrueFalse"/>
102     <xsd:attribute name="id" type="s:ST_Guid"/>
103     <xsd:attribute name="provid" type="s:ST_Guid"/>
104     <xsd:attribute name="signinginstructionsset" type="s:ST_TrueFalse"/>
105     <xsd:attribute name="allowcomments" type="s:ST_TrueFalse"/>
106     <xsd:attribute name="showsigndate" type="s:ST_TrueFalse"/>
107     <xsd:attribute name="suggestedsigner" type="xsd:string" form="qualified"/>
108     <xsd:attribute name="suggestedsigner2" type="xsd:string" form="qualified"/>
109     <xsd:attribute name="suggestedsigneremail" type="xsd:string" form="qualified"/>
110     <xsd:attribute name="signinginstructions" type="xsd:string"/>
111     <xsd:attribute name="addxml" type="xsd:string"/>
112     <xsd:attribute name="sigprovurl" type="xsd:string"/>
113 </xsd:complexType>
114 <xsd:complexType name="CT_ShapeLayout">
115     <xsd:all>
116         <xsd:element name="idmap" type="CT_IdMap" minOccurs="0"/>
117         <xsd:element name="regrouptable" type="CT_RegroupTable" minOccurs="0"/>
118         <xsd:element name="rules" type="CT_Rules" minOccurs="0"/>
119     </xsd:all>
120     <xsd:attributeGroup ref="v:AG_Ext"/>
121 </xsd:complexType>
122 <xsd:complexType name="CT_IdMap">
123     <xsd:attributeGroup ref="v:AG_Ext"/>
124     <xsd:attribute name="data" type="xsd:string" use="optional"/>
125 </xsd:complexType>
126 <xsd:complexType name="CT_RegroupTable">
127     <xsd:sequence>
128         <xsd:element name="entry" type="CT_Entry" minOccurs="0" maxOccurs="unbounded"/>
129     </xsd:sequence>
130     <xsd:attributeGroup ref="v:AG_Ext"/>

```

```

131 </xsd:complexType>
132 <xsd:complexType name="CT_Entry">
133   <xsd:attribute name="new" type="xsd:int" use="optional"/>
134   <xsd:attribute name="old" type="xsd:int" use="optional"/>
135 </xsd:complexType>
136 <xsd:complexType name="CT_Rules">
137   <xsd:sequence>
138     <xsd:element name="r" type="CT_R" minOccurs="0" maxOccurs="unbounded"/>
139   </xsd:sequence>
140   <xsd:attributeGroup ref="v:AG_Ext"/>
141 </xsd:complexType>
142 <xsd:complexType name="CT_R">
143   <xsd:sequence>
144     <xsd:element name="proxy" type="CT_Proxy" minOccurs="0" maxOccurs="unbounded"/>
145   </xsd:sequence>
146   <xsd:attribute name="id" type="xsd:string" use="required"/>
147   <xsd:attribute name="type" type="ST_RType" use="optional"/>
148   <xsd:attribute name="how" type="ST_How" use="optional"/>
149   <xsd:attribute name="idref" type="xsd:string" use="optional"/>
150 </xsd:complexType>
151 <xsd:complexType name="CT_Proxy">
152   <xsd:attribute name="start" type="s:ST_TrueFalseBlank" use="optional" default="false"/>
153   <xsd:attribute name="end" type="s:ST_TrueFalseBlank" use="optional" default="false"/>
154   <xsd:attribute name="idref" type="xsd:string" use="optional"/>
155   <xsd:attribute name="connectloc" type="xsd:int" use="optional"/>
156 </xsd:complexType>
157 <xsd:complexType name="CT_Diagram">
158   <xsd:sequence>
159     <xsd:element name="relationtable" type="CT_RelationTable" minOccurs="0"/>
160   </xsd:sequence>
161   <xsd:attributeGroup ref="v:AG_Ext"/>
162   <xsd:attribute name="dgmstyle" type="xsd:integer" use="optional"/>
163   <xsd:attribute name="autoformat" type="s:ST_TrueFalse" use="optional"/>
164   <xsd:attribute name="reverse" type="s:ST_TrueFalse" use="optional"/>
165   <xsd:attribute name="autolayout" type="s:ST_TrueFalse" use="optional"/>
166   <xsd:attribute name="dgmsex" type="xsd:integer" use="optional"/>
167   <xsd:attribute name="dgmseale" type="xsd:integer" use="optional"/>
168   <xsd:attribute name="dgmfontsize" type="xsd:integer" use="optional"/>
169   <xsd:attribute name="constrainbounds" type="xsd:string" use="optional"/>
170   <xsd:attribute name="dgmasetextscale" type="xsd:integer" use="optional"/>
171 </xsd:complexType>
172 <xsd:complexType name="CT_EquationXml">
173   <xsd:sequence>
174     <xsd:any namespace="##any"/>
175   </xsd:sequence>
176   <xsd:attribute name="contentType" type="ST_AlternateMathContentType" use="optional"/>
177 </xsd:complexType>
178 <xsd:simpleType name="ST_AlternateMathContentType">
179   <xsd:restriction base="xsd:string"/>
180 </xsd:simpleType>
181 <xsd:complexType name="CT_RelationTable">
182   <xsd:sequence>
183     <xsd:element name="rel" type="CT_Relation" minOccurs="0" maxOccurs="unbounded"/>

```

```

184     </xsd:sequence>
185     <xsd:attributeGroup ref="v:AG_Ext"/>
186 </xsd:complexType>
187 <xsd:complexType name="CT_Relation">
188     <xsd:attributeGroup ref="v:AG_Ext"/>
189     <xsd:attribute name="idsrc" type="xsd:string" use="optional"/>
190     <xsd:attribute name="iddest" type="xsd:string" use="optional"/>
191     <xsd:attribute name="idcntr" type="xsd:string" use="optional"/>
192 </xsd:complexType>
193 <xsd:complexType name="CT_ColorMru">
194     <xsd:attributeGroup ref="v:AG_Ext"/>
195     <xsd:attribute name="colors" type="xsd:string"/>
196 </xsd:complexType>
197 <xsd:complexType name="CT_ColorMenu">
198     <xsd:attributeGroup ref="v:AG_Ext"/>
199     <xsd:attribute name="strokecolor" type="s:ST_ColorType"/>
200     <xsd:attribute name="fillcolor" type="s:ST_ColorType"/>
201     <xsd:attribute name="shadowcolor" type="s:ST_ColorType"/>
202     <xsd:attribute name="extrusioncolor" type="s:ST_ColorType"/>
203 </xsd:complexType>
204 <xsd:element name="skew" type="CT_Skew"/>
205 <xsd:element name="extrusion" type="CT_Extrusion"/>
206 <xsd:element name="callout" type="CT_Callout"/>
207 <xsd:element name="lock" type="CT_Lock"/>
208 <xsd:element name="OLEObject" type="CT_OLEObject"/>
209 <xsd:element name="complex" type="CT_Complex"/>
210 <xsd:element name="left" type="CT_StrokeChild"/>
211 <xsd:element name="top" type="CT_StrokeChild"/>
212 <xsd:element name="right" type="CT_StrokeChild"/>
213 <xsd:element name="bottom" type="CT_StrokeChild"/>
214 <xsd:element name="column" type="CT_StrokeChild"/>
215 <xsd:element name="clippath" type="CT_ClipPath"/>
216 <xsd:element name="fill" type="CT_Fill"/>
217 <xsd:complexType name="CT_Skew">
218     <xsd:attributeGroup ref="v:AG_Ext"/>
219     <xsd:attribute name="id" type="xsd:string" use="optional"/>
220     <xsd:attribute name="on" type="s:ST_TrueFalse" use="optional"/>
221     <xsd:attribute name="offset" type="xsd:string" use="optional"/>
222     <xsd:attribute name="origin" type="xsd:string" use="optional"/>
223     <xsd:attribute name="matrix" type="xsd:string" use="optional"/>
224 </xsd:complexType>
225 <xsd:complexType name="CT_Extrusion">
226     <xsd:attributeGroup ref="v:AG_Ext"/>
227     <xsd:attribute name="on" type="s:ST_TrueFalse" use="optional"/>
228     <xsd:attribute name="type" type="ST_ExtrusionType" default="parallel" use="optional"/>
229     <xsd:attribute name="render" type="ST_ExtrusionRender" default="solid" use="optional"/>
230     <xsd:attribute name="viewpointorigin" type="xsd:string" use="optional"/>
231     <xsd:attribute name="viewpoint" type="xsd:string" use="optional"/>
232     <xsd:attribute name="plane" type="ST_ExtrusionPlane" default="XY" use="optional"/>
233     <xsd:attribute name="skewangle" type="xsd:float" use="optional"/>
234     <xsd:attribute name="skewamt" type="xsd:string" use="optional"/>
235     <xsd:attribute name="foredepth" type="xsd:string" use="optional"/>
236     <xsd:attribute name="backdepth" type="xsd:string" use="optional"/>

```

```

237 <xsd:attribute name="orientation" type="xsd:string" use="optional"/>
238 <xsd:attribute name="orientationangle" type="xsd:float" use="optional"/>
239 <xsd:attribute name="lockrotationcenter" type="s:ST TrueFalse" use="optional"/>
240 <xsd:attribute name="autorotationcenter" type="s:ST TrueFalse" use="optional"/>
241 <xsd:attribute name="rotationcenter" type="xsd:string" use="optional"/>
242 <xsd:attribute name="rotationangle" type="xsd:string" use="optional"/>
243 <xsd:attribute name="colormode" type="ST ColorMode" use="optional"/>
244 <xsd:attribute name="color" type="s:ST ColorType" use="optional"/>
245 <xsd:attribute name="shininess" type="xsd:float" use="optional"/>
246 <xsd:attribute name="specularity" type="xsd:string" use="optional"/>
247 <xsd:attribute name="diffusivity" type="xsd:string" use="optional"/>
248 <xsd:attribute name="metal" type="s:ST TrueFalse" use="optional"/>
249 <xsd:attribute name="edge" type="xsd:string" use="optional"/>
250 <xsd:attribute name="facet" type="xsd:string" use="optional"/>
251 <xsd:attribute name="lightface" type="s:ST TrueFalse" use="optional"/>
252 <xsd:attribute name="brightness" type="xsd:string" use="optional"/>
253 <xsd:attribute name="lightposition" type="xsd:string" use="optional"/>
254 <xsd:attribute name="lightlevel" type="xsd:string" use="optional"/>
255 <xsd:attribute name="lightharsh" type="s:ST TrueFalse" use="optional"/>
256 <xsd:attribute name="lightposition2" type="xsd:string" use="optional"/>
257 <xsd:attribute name="lightlevel2" type="xsd:string" use="optional"/>
258 <xsd:attribute name="lightharsh2" type="s:ST TrueFalse" use="optional"/>
259 </xsd:complexType>
260 <xsd:complexType name="CT_Callout">
261   <xsd:attributeGroup ref="v:AG Ext"/>
262   <xsd:attribute name="on" type="s:ST TrueFalse" use="optional"/>
263   <xsd:attribute name="type" type="xsd:string" use="optional"/>
264   <xsd:attribute name="gap" type="xsd:string" use="optional"/>
265   <xsd:attribute name="angle" type="ST Angle" use="optional"/>
266   <xsd:attribute name="dropauto" type="s:ST TrueFalse" use="optional"/>
267   <xsd:attribute name="drop" type="ST CalloutDrop" use="optional"/>
268   <xsd:attribute name="distance" type="xsd:string" use="optional"/>
269   <xsd:attribute name="lengthspecified" type="s:ST TrueFalse" default="f" use="optional"/>
270   <xsd:attribute name="length" type="xsd:string" use="optional"/>
271   <xsd:attribute name="accentbar" type="s:ST TrueFalse" use="optional"/>
272   <xsd:attribute name="textborder" type="s:ST TrueFalse" use="optional"/>
273   <xsd:attribute name="minusx" type="s:ST TrueFalse" use="optional"/>
274   <xsd:attribute name="minusy" type="s:ST TrueFalse" use="optional"/>
275 </xsd:complexType>
276 <xsd:complexType name="CT_Lock">
277   <xsd:attributeGroup ref="v:AG Ext"/>
278   <xsd:attribute name="position" type="s:ST TrueFalse" use="optional"/>
279   <xsd:attribute name="selection" type="s:ST TrueFalse" use="optional"/>
280   <xsd:attribute name="grouping" type="s:ST TrueFalse" use="optional"/>
281   <xsd:attribute name="ungrouping" type="s:ST TrueFalse" use="optional"/>
282   <xsd:attribute name="rotation" type="s:ST TrueFalse" use="optional"/>
283   <xsd:attribute name="cropping" type="s:ST TrueFalse" use="optional"/>
284   <xsd:attribute name="verticies" type="s:ST TrueFalse" use="optional"/>
285   <xsd:attribute name="adjusthandles" type="s:ST TrueFalse" use="optional"/>
286   <xsd:attribute name="text" type="s:ST TrueFalse" use="optional"/>
287   <xsd:attribute name="aspectratio" type="s:ST TrueFalse" use="optional"/>
288   <xsd:attribute name="shapetype" type="s:ST TrueFalse" use="optional"/>
289 </xsd:complexType>

```

```

290 <xsd:complexType name="CT_OLEObject">
291   <xsd:sequence>
292     <xsd:element name="LinkType" type="ST_OLELinkType" minOccurs="0"/>
293     <xsd:element name="LockedField" type="s:ST_TrueFalseBlank" minOccurs="0"/>
294     <xsd:element name="FieldCodes" type="xsd:string" minOccurs="0"/>
295   </xsd:sequence>
296   <xsd:attribute name="Type" type="ST_OLEType" use="optional"/>
297   <xsd:attribute name="ProgID" type="xsd:string" use="optional"/>
298   <xsd:attribute name="ShapeID" type="xsd:string" use="optional"/>
299   <xsd:attribute name="DrawAspect" type="ST_OLEDrawAspect" use="optional"/>
300   <xsd:attribute name="ObjectID" type="xsd:string" use="optional"/>
301   <xsd:attribute ref="r:id" use="optional"/>
302   <xsd:attribute name="UpdateMode" type="ST_OLEUpdateMode" use="optional"/>
303 </xsd:complexType>
304 <xsd:complexType name="CT_Complex">
305   <xsd:attributeGroup ref="v:AG_Ext"/>
306 </xsd:complexType>
307 <xsd:complexType name="CT_StrokeChild">
308   <xsd:attributeGroup ref="v:AG_Ext"/>
309   <xsd:attribute name="on" type="s:ST_TrueFalse" use="optional"/>
310   <xsd:attribute name="weight" type="xsd:string" use="optional"/>
311   <xsd:attribute name="color" type="s:ST_ColorType" use="optional"/>
312   <xsd:attribute name="color2" type="s:ST_ColorType" use="optional"/>
313   <xsd:attribute name="opacity" type="xsd:string" use="optional"/>
314   <xsd:attribute name="linestyle" type="v:ST_StrokeLineStyle" use="optional"/>
315   <xsd:attribute name="miterlimit" type="xsd:decimal" use="optional"/>
316   <xsd:attribute name="joinstyle" type="v:ST_StrokeJoinStyle" use="optional"/>
317   <xsd:attribute name="endcap" type="v:ST_StrokeEndCap" use="optional"/>
318   <xsd:attribute name="dashstyle" type="xsd:string" use="optional"/>
319   <xsd:attribute name="insetpen" type="s:ST_TrueFalse" use="optional"/>
320   <xsd:attribute name="filltype" type="v:ST_FillType" use="optional"/>
321   <xsd:attribute name="src" type="xsd:string" use="optional"/>
322   <xsd:attribute name="imageaspect" type="v:ST_ImageAspect" use="optional"/>
323   <xsd:attribute name="imagesize" type="xsd:string" use="optional"/>
324   <xsd:attribute name="imagealignshape" type="s:ST_TrueFalse" use="optional"/>
325   <xsd:attribute name="startarrow" type="v:ST_StrokeArrowType" use="optional"/>
326   <xsd:attribute name="startarrowwidth" type="v:ST_StrokeArrowWidth" use="optional"/>
327   <xsd:attribute name="startarrowlength" type="v:ST_StrokeArrowLength" use="optional"/>
328   <xsd:attribute name="endarrow" type="v:ST_StrokeArrowType" use="optional"/>
329   <xsd:attribute name="endarrowwidth" type="v:ST_StrokeArrowWidth" use="optional"/>
330   <xsd:attribute name="endarrowlength" type="v:ST_StrokeArrowLength" use="optional"/>
331   <xsd:attribute ref="href"/>
332   <xsd:attribute ref="althref"/>
333   <xsd:attribute ref="title"/>
334   <xsd:attribute ref="forcedash"/>
335 </xsd:complexType>
336 <xsd:complexType name="CT_ClipPath">
337   <xsd:attribute name="v" type="xsd:string" use="required" form="qualified"/>
338 </xsd:complexType>
339 <xsd:complexType name="CT_Fill">
340   <xsd:attributeGroup ref="v:AG_Ext"/>
341   <xsd:attribute name="type" type="ST_FillType"/>
342 </xsd:complexType>

```

```

343 <xsd:simpleType name="ST_RType">
344   <xsd:restriction base="xsd:string">
345     <xsd:enumeration value="arc"/>
346     <xsd:enumeration value="callout"/>
347     <xsd:enumeration value="connector"/>
348     <xsd:enumeration value="align"/>
349   </xsd:restriction>
350 </xsd:simpleType>
351 <xsd:simpleType name="ST_How">
352   <xsd:restriction base="xsd:string">
353     <xsd:enumeration value="top"/>
354     <xsd:enumeration value="middle"/>
355     <xsd:enumeration value="bottom"/>
356     <xsd:enumeration value="left"/>
357     <xsd:enumeration value="center"/>
358     <xsd:enumeration value="right"/>
359   </xsd:restriction>
360 </xsd:simpleType>
361 <xsd:simpleType name="ST_BWMode">
362   <xsd:restriction base="xsd:string">
363     <xsd:enumeration value="color"/>
364     <xsd:enumeration value="auto"/>
365     <xsd:enumeration value="grayScale"/>
366     <xsd:enumeration value="lightGrayscale"/>
367     <xsd:enumeration value="inverseGray"/>
368     <xsd:enumeration value="grayOutline"/>
369     <xsd:enumeration value="highContrast"/>
370     <xsd:enumeration value="black"/>
371     <xsd:enumeration value="white"/>
372     <xsd:enumeration value="hide"/>
373     <xsd:enumeration value="undrawn"/>
374     <xsd:enumeration value="blackTextAndLines"/>
375   </xsd:restriction>
376 </xsd:simpleType>
377 <xsd:simpleType name="ST_ScreenSize">
378   <xsd:restriction base="xsd:string">
379     <xsd:enumeration value="544,376"/>
380     <xsd:enumeration value="640,480"/>
381     <xsd:enumeration value="720,512"/>
382     <xsd:enumeration value="800,600"/>
383     <xsd:enumeration value="1024,768"/>
384     <xsd:enumeration value="1152,862"/>
385   </xsd:restriction>
386 </xsd:simpleType>
387 <xsd:simpleType name="ST_InsetMode">
388   <xsd:restriction base="xsd:string">
389     <xsd:enumeration value="auto"/>
390     <xsd:enumeration value="custom"/>
391   </xsd:restriction>
392 </xsd:simpleType>
393 <xsd:simpleType name="ST_ColorMode">
394   <xsd:restriction base="xsd:string">
395     <xsd:enumeration value="auto"/>

```



```

396         <xsd:enumeration value="custom"/>
397     </xsd:restriction>
398 </xsd:simpleType>
399 <xsd:simpleType name="ST_ContentType">
400     <xsd:restriction base="xsd:string"/>
401 </xsd:simpleType>
402 <xsd:simpleType name="ST_DiagramLayout">
403     <xsd:restriction base="xsd:integer">
404         <xsd:enumeration value="0"/>
405         <xsd:enumeration value="1"/>
406         <xsd:enumeration value="2"/>
407         <xsd:enumeration value="3"/>
408     </xsd:restriction>
409 </xsd:simpleType>
410 <xsd:simpleType name="ST_ExtrusionType">
411     <xsd:restriction base="xsd:string">
412         <xsd:enumeration value="perspective"/>
413         <xsd:enumeration value="parallel"/>
414     </xsd:restriction>
415 </xsd:simpleType>
416 <xsd:simpleType name="ST_ExtrusionRender">
417     <xsd:restriction base="xsd:string">
418         <xsd:enumeration value="solid"/>
419         <xsd:enumeration value="wireFrame"/>
420         <xsd:enumeration value="boundingCube"/>
421     </xsd:restriction>
422 </xsd:simpleType>
423 <xsd:simpleType name="ST_ExtrusionPlane">
424     <xsd:restriction base="xsd:string">
425         <xsd:enumeration value="XY"/>
426         <xsd:enumeration value="ZX"/>
427         <xsd:enumeration value="YZ"/>
428     </xsd:restriction>
429 </xsd:simpleType>
430 <xsd:simpleType name="ST_Angle">
431     <xsd:restriction base="xsd:string">
432         <xsd:enumeration value="any"/>
433         <xsd:enumeration value="30"/>
434         <xsd:enumeration value="45"/>
435         <xsd:enumeration value="60"/>
436         <xsd:enumeration value="90"/>
437         <xsd:enumeration value="auto"/>
438     </xsd:restriction>
439 </xsd:simpleType>
440 <xsd:simpleType name="ST_CalloutDrop">
441     <xsd:restriction base="xsd:string"/>
442 </xsd:simpleType>
443 <xsd:simpleType name="ST_CalloutPlacement">
444     <xsd:restriction base="xsd:string">
445         <xsd:enumeration value="top"/>
446         <xsd:enumeration value="center"/>
447         <xsd:enumeration value="bottom"/>
448         <xsd:enumeration value="user"/>

```

```

449     </xsd:restriction>
450 </xsd:simpleType>
451 <xsd:simpleType name="ST_ConnectorType">
452     <xsd:restriction base="xsd:string">
453         <xsd:enumeration value="none"/>
454         <xsd:enumeration value="straight"/>
455         <xsd:enumeration value="elbow"/>
456         <xsd:enumeration value="curved"/>
457     </xsd:restriction>
458 </xsd:simpleType>
459 <xsd:simpleType name="ST_HrAlign">
460     <xsd:restriction base="xsd:string">
461         <xsd:enumeration value="left"/>
462         <xsd:enumeration value="right"/>
463         <xsd:enumeration value="center"/>
464     </xsd:restriction>
465 </xsd:simpleType>
466 <xsd:simpleType name="ST_ConnectType">
467     <xsd:restriction base="xsd:string">
468         <xsd:enumeration value="none"/>
469         <xsd:enumeration value="rect"/>
470         <xsd:enumeration value="segments"/>
471         <xsd:enumeration value="custom"/>
472     </xsd:restriction>
473 </xsd:simpleType>
474 <xsd:simpleType name="ST_OLELinkType">
475     <xsd:restriction base="xsd:string"/>
476 </xsd:simpleType>
477 <xsd:simpleType name="ST_OLEType">
478     <xsd:restriction base="xsd:string">
479         <xsd:enumeration value="Embed"/>
480         <xsd:enumeration value="Link"/>
481     </xsd:restriction>
482 </xsd:simpleType>
483 <xsd:simpleType name="ST_OLEDrawAspect">
484     <xsd:restriction base="xsd:string">
485         <xsd:enumeration value="Content"/>
486         <xsd:enumeration value="Icon"/>
487     </xsd:restriction>
488 </xsd:simpleType>
489 <xsd:simpleType name="ST_OLEUpdateMode">
490     <xsd:restriction base="xsd:string">
491         <xsd:enumeration value="Always"/>
492         <xsd:enumeration value="OnCall"/>
493     </xsd:restriction>
494 </xsd:simpleType>
495 <xsd:simpleType name="ST_FillType">
496     <xsd:restriction base="xsd:string">
497         <xsd:enumeration value="gradientCenter"/>
498         <xsd:enumeration value="solid"/>
499         <xsd:enumeration value="pattern"/>
500         <xsd:enumeration value="tile"/>
501         <xsd:enumeration value="frame"/>

```



```

502         <xsd:enumeration value="gradientUnscaled"/>
503         <xsd:enumeration value="gradientRadial"/>
504         <xsd:enumeration value="gradient"/>
505         <xsd:enumeration value="background"/>
506     </xsd:restriction>
507 </xsd:simpleType>
508 </xsd:schema>

```

### A.6.3 VML - WordprocessingML Drawing

This schema is available in the file vml-wordprocessingDrawing.xsd.

```

1  <xsd:schema xmlns="urn:schemas-microsoft-com:office:word"
2  xmlns:xsd="http://www.w3.org/2001/XMLSchema" targetNamespace="urn:schemas-microsoft-com:office:word"
3  elementFormDefault="qualified" attributeFormDefault="unqualified">
4      <xsd:element name="bordertop" type="CT_Border"/>
5      <xsd:element name="borderleft" type="CT_Border"/>
6      <xsd:element name="borderright" type="CT_Border"/>
7      <xsd:element name="borderbottom" type="CT_Border"/>
8      <xsd:complexType name="CT_Border">
9          <xsd:attribute name="type" type="ST_BorderType" use="optional"/>
10         <xsd:attribute name="width" type="xsd:positiveInteger" use="optional"/>
11         <xsd:attribute name="shadow" type="ST_BorderShadow" use="optional"/>
12     </xsd:complexType>
13     <xsd:element name="wrap" type="CT_Wrap"/>
14     <xsd:complexType name="CT_Wrap">
15         <xsd:attribute name="type" type="ST_WrapType" use="optional"/>
16         <xsd:attribute name="side" type="ST_WrapSide" use="optional"/>
17         <xsd:attribute name="anchorx" type="ST_HorizontalAnchor" use="optional"/>
18         <xsd:attribute name="anchory" type="ST_VerticalAnchor" use="optional"/>
19     </xsd:complexType>
20     <xsd:element name="anchorlock" type="CT_AnchorLock"/>
21     <xsd:complexType name="CT_AnchorLock"/>
22     <xsd:simpleType name="ST_BorderType">
23         <xsd:restriction base="xsd:string">
24             <xsd:enumeration value="none"/>
25             <xsd:enumeration value="single"/>
26             <xsd:enumeration value="thick"/>
27             <xsd:enumeration value="double"/>
28             <xsd:enumeration value="hairline"/>
29             <xsd:enumeration value="dot"/>
30             <xsd:enumeration value="dash"/>
31             <xsd:enumeration value="dotDash"/>
32             <xsd:enumeration value="dashDotDot"/>
33             <xsd:enumeration value="triple"/>
34             <xsd:enumeration value="thinThickSmall"/>
35             <xsd:enumeration value="thickThinSmall"/>
36             <xsd:enumeration value="thickBetweenThinSmall"/>
37             <xsd:enumeration value="thinThick"/>
38             <xsd:enumeration value="thickThin"/>
39             <xsd:enumeration value="thickBetweenThin"/>
40             <xsd:enumeration value="thinThickLarge"/>
41             <xsd:enumeration value="thickThinLarge"/>

```

```

42      <xsd:enumeration value="thickBetweenThinLarge"/>
43      <xsd:enumeration value="wave"/>
44      <xsd:enumeration value="doubleWave"/>
45      <xsd:enumeration value="dashedSmall"/>
46      <xsd:enumeration value="dashDotStroked"/>
47      <xsd:enumeration value="threeDEmboss"/>
48      <xsd:enumeration value="threeDEngrave"/>
49      <xsd:enumeration value="HTMLOutset"/>
50      <xsd:enumeration value="HTMLInset"/>
51    </xsd:restriction>
52  </xsd:simpleType>
53  <xsd:simpleType name="ST_BorderShadow">
54    <xsd:restriction base="xsd:string">
55      <xsd:enumeration value="t"/>
56      <xsd:enumeration value="true"/>
57      <xsd:enumeration value="f"/>
58      <xsd:enumeration value="false"/>
59    </xsd:restriction>
60  </xsd:simpleType>
61  <xsd:simpleType name="ST_WrapType">
62    <xsd:restriction base="xsd:string">
63      <xsd:enumeration value="topAndBottom"/>
64      <xsd:enumeration value="square"/>
65      <xsd:enumeration value="none"/>
66      <xsd:enumeration value="tight"/>
67      <xsd:enumeration value="through"/>
68    </xsd:restriction>
69  </xsd:simpleType>
70  <xsd:simpleType name="ST_WrapSide">
71    <xsd:restriction base="xsd:string">
72      <xsd:enumeration value="both"/>
73      <xsd:enumeration value="left"/>
74      <xsd:enumeration value="right"/>
75      <xsd:enumeration value="largest"/>
76    </xsd:restriction>
77  </xsd:simpleType>
78  <xsd:simpleType name="ST_HorizontalAnchor">
79    <xsd:restriction base="xsd:string">
80      <xsd:enumeration value="margin"/>
81      <xsd:enumeration value="page"/>
82      <xsd:enumeration value="text"/>
83      <xsd:enumeration value="char"/>
84    </xsd:restriction>
85  </xsd:simpleType>
86  <xsd:simpleType name="ST_VerticalAnchor">
87    <xsd:restriction base="xsd:string">
88      <xsd:enumeration value="margin"/>
89      <xsd:enumeration value="page"/>
90      <xsd:enumeration value="text"/>
91      <xsd:enumeration value="line"/>
92    </xsd:restriction>
93  </xsd:simpleType>
94 </xsd:schema>

```

## A.6.4 VML - SpreadsheetML Drawing

This schema is available in the file vml-spreadsheetDrawing.xsd.

```

1 <xsd:schema xmlns="urn:schemas-microsoft-com:office:excel"
2   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
3   xmlns:s="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes"
4   targetNamespace="urn:schemas-microsoft-com:office:excel" elementFormDefault="qualified"
5   attributeFormDefault="unqualified">
6   <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes"
7     schemaLocation="shared-commonSimpleTypes.xsd"/>
8   <xsd:element name="ClientData" type="CT_ClientData"/>
9   <xsd:complexType name="CT_ClientData">
10     <xsd:choice minOccurs="0" maxOccurs="unbounded">
11       <xsd:element name="MoveWithCells" type="s:ST_TrueFalseBlank"/>
12       <xsd:element name="SizeWithCells" type="s:ST_TrueFalseBlank"/>
13       <xsd:element name="Anchor" type="xsd:string"/>
14       <xsd:element name="Locked" type="s:ST_TrueFalseBlank"/>
15       <xsd:element name="DefaultSize" type="s:ST_TrueFalseBlank"/>
16       <xsd:element name="PrintObject" type="s:ST_TrueFalseBlank"/>
17       <xsd:element name="Disabled" type="s:ST_TrueFalseBlank"/>
18       <xsd:element name="AutoFill" type="s:ST_TrueFalseBlank"/>
19       <xsd:element name="AutoLine" type="s:ST_TrueFalseBlank"/>
20       <xsd:element name="AutoPict" type="s:ST_TrueFalseBlank"/>
21       <xsd:element name="FmlaMacro" type="xsd:string"/>
22       <xsd:element name="TextHAlign" type="xsd:string"/>
23       <xsd:element name="TextVAlign" type="xsd:string"/>
24       <xsd:element name="LockText" type="s:ST_TrueFalseBlank"/>
25       <xsd:element name="JustLastX" type="s:ST_TrueFalseBlank"/>
26       <xsd:element name="SecretEdit" type="s:ST_TrueFalseBlank"/>
27       <xsd:element name="Default" type="s:ST_TrueFalseBlank"/>
28       <xsd:element name="Help" type="s:ST_TrueFalseBlank"/>
29       <xsd:element name="Cancel" type="s:ST_TrueFalseBlank"/>
30       <xsd:element name="Dismiss" type="s:ST_TrueFalseBlank"/>
31       <xsd:element name="Accel" type="xsd:integer"/>
32       <xsd:element name="Accel2" type="xsd:integer"/>
33       <xsd:element name="Row" type="xsd:integer"/>
34       <xsd:element name="Column" type="xsd:integer"/>
35       <xsd:element name="Visible" type="s:ST_TrueFalseBlank"/>
36       <xsd:element name="RowHidden" type="s:ST_TrueFalseBlank"/>
37       <xsd:element name="ColHidden" type="s:ST_TrueFalseBlank"/>
38       <xsd:element name="VTEdit" type="xsd:integer"/>
39       <xsd:element name="MultiLine" type="s:ST_TrueFalseBlank"/>
40       <xsd:element name="VScroll" type="s:ST_TrueFalseBlank"/>
41       <xsd:element name="ValidIds" type="s:ST_TrueFalseBlank"/>
42       <xsd:element name="FmlaRange" type="xsd:string"/>
43       <xsd:element name="WidthMin" type="xsd:integer"/>
44       <xsd:element name="Sel" type="xsd:integer"/>
45       <xsd:element name="NoThreeD2" type="s:ST_TrueFalseBlank"/>
46       <xsd:element name="SelType" type="xsd:string"/>
47       <xsd:element name="MultiSel" type="xsd:string"/>
48       <xsd:element name="LCT" type="xsd:string"/>
49       <xsd:element name="ListItem" type="xsd:string"/>

```

```

50      <xsd:element name="DropStyle" type="xsd:string"/>
51      <xsd:element name="Colored" type="s:ST TrueFalseBlank"/>
52      <xsd:element name="DropLines" type="xsd:integer"/>
53      <xsd:element name="Checked" type="xsd:integer"/>
54      <xsd:element name="FmlaLink" type="xsd:string"/>
55      <xsd:element name="FmlaPict" type="xsd:string"/>
56      <xsd:element name="NoThreeD" type="s:ST TrueFalseBlank"/>
57      <xsd:element name="FirstButton" type="s:ST TrueFalseBlank"/>
58      <xsd:element name="FmlaGroup" type="xsd:string"/>
59      <xsd:element name="Val" type="xsd:integer"/>
60      <xsd:element name="Min" type="xsd:integer"/>
61      <xsd:element name="Max" type="xsd:integer"/>
62      <xsd:element name="Inc" type="xsd:integer"/>
63      <xsd:element name="Page" type="xsd:integer"/>
64      <xsd:element name="Horiz" type="s:ST TrueFalseBlank"/>
65      <xsd:element name="Dx" type="xsd:integer"/>
66      <xsd:element name="MapOCX" type="s:ST TrueFalseBlank"/>
67      <xsd:element name="CF" type="ST_CF"/>
68      <xsd:element name="Camera" type="s:ST TrueFalseBlank"/>
69      <xsd:element name="RecalcAlways" type="s:ST TrueFalseBlank"/>
70      <xsd:element name="AutoScale" type="s:ST TrueFalseBlank"/>
71      <xsd:element name="DDE" type="s:ST TrueFalseBlank"/>
72      <xsd:element name="UIObj" type="s:ST TrueFalseBlank"/>
73      <xsd:element name="ScriptText" type="xsd:string"/>
74      <xsd:element name="ScriptExtended" type="xsd:string"/>
75      <xsd:element name="ScriptLanguage" type="xsd:nonNegativeInteger"/>
76      <xsd:element name="ScriptLocation" type="xsd:nonNegativeInteger"/>
77      <xsd:element name="FmlaTxbx" type="xsd:string"/>
78    </xsd:choice>
79    <xsd:attribute name="ObjectType" type="ST_ObjectType" use="required"/>
80  </xsd:complexType>
81  <xsd:simpleType name="ST_CF">
82    <xsd:restriction base="xsd:string"/>
83  </xsd:simpleType>
84  <xsd:simpleType name="ST_ObjectType">
85    <xsd:restriction base="xsd:string">
86      <xsd:enumeration value="Button"/>
87      <xsd:enumeration value="Checkbox"/>
88      <xsd:enumeration value="Dialog"/>
89      <xsd:enumeration value="Drop"/>
90      <xsd:enumeration value="Edit"/>
91      <xsd:enumeration value="GBox"/>
92      <xsd:enumeration value="Label"/>
93      <xsd:enumeration value="LineA"/>
94      <xsd:enumeration value="List"/>
95      <xsd:enumeration value="Movie"/>
96      <xsd:enumeration value="Note"/>
97      <xsd:enumeration value="Pict"/>
98      <xsd:enumeration value="Radio"/>
99      <xsd:enumeration value="RectA"/>
100     <xsd:enumeration value="Scroll"/>
101     <xsd:enumeration value="Spin"/>
102     <xsd:enumeration value="Shape"/>

```

```

103         <xsd:enumeration value="Group"/>
104         <xsd:enumeration value="Rect"/>
105     </xsd:restriction>
106 </xsd:simpleType>
107 </xsd:schema>

```

## A.6.5 VML - PresentationML Drawing

This schema is available in the file vml-presentationDrawing.xsd.

```

1 <xsd:schema xmlns="urn:schemas-microsoft-com:office:powerpoint"
2   xmlns:xsd="http://www.w3.org/2001/XMLSchema" targetNamespace="urn:schemas-microsoft-
3   com:office:powerpoint" elementFormDefault="qualified" attributeFormDefault="unqualified">
4   <xsd:element name="iscomment" type="CT_Empty"/>
5   <xsd:element name="textdata" type="CT_Rel"/>
6   <xsd:complexType name="CT_Empty"/>
7   <xsd:complexType name="CT_Rel">
8       <xsd:attribute name="id" type="xsd:string"/>
9   </xsd:complexType>
10 </xsd:schema>

```

## A.7 Shared MLs

### A.7.1 Math

This schema is available in the file shared-math.xsd.

```

1 <xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
2   xmlns="http://schemas.openxmlformats.org/officeDocument/2006/math"
3   xmlns:m="http://schemas.openxmlformats.org/officeDocument/2006/math"
4   xmlns:w="http://schemas.openxmlformats.org/wordprocessingml/2006/main"
5   xmlns:s="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes"
6   elementFormDefault="qualified" attributeFormDefault="qualified" blockDefault="#all"
7   targetNamespace="http://schemas.openxmlformats.org/officeDocument/2006/math">
8   <xsd:import namespace="http://schemas.openxmlformats.org/wordprocessingml/2006/main"
9     schemaLocation="wml.xsd"/>
10  <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes"
11    schemaLocation="shared-commonSimpleTypes.xsd"/>
12  <xsd:import namespace="http://www.w3.org/XML/1998/namespace"/>
13  <xsd:simpleType name="ST_Integer255">
14      <xsd:restriction base="xsd:integer">
15          <xsd:minInclusive value="1"/>
16          <xsd:maxInclusive value="255"/>
17      </xsd:restriction>
18  </xsd:simpleType>
19  <xsd:complexType name="CT_Integer255">
20      <xsd:attribute name="val" type="ST_Integer255" use="required"/>
21  </xsd:complexType>
22  <xsd:simpleType name="ST_Integer2">
23      <xsd:restriction base="xsd:integer">
24          <xsd:minInclusive value="-2"/>
25          <xsd:maxInclusive value="2"/>
26      </xsd:restriction>

```

```

27 </xsd:simpleType>
28 <xsd:complexType name="CT_Integer2">
29   <xsd:attribute name="val" type="ST_Integer2" use="required"/>
30 </xsd:complexType>
31 <xsd:simpleType name="ST_SpacingRule">
32   <xsd:restriction base="xsd:integer">
33     <xsd:minInclusive value="0"/>
34     <xsd:maxInclusive value="4"/>
35   </xsd:restriction>
36 </xsd:simpleType>
37 <xsd:complexType name="CT_SpacingRule">
38   <xsd:attribute name="val" type="ST_SpacingRule" use="required"/>
39 </xsd:complexType>
40 <xsd:simpleType name="ST_UnSignedInteger">
41   <xsd:restriction base="xsd:unsignedInt"/>
42 </xsd:simpleType>
43 <xsd:complexType name="CT_UnSignedInteger">
44   <xsd:attribute name="val" type="ST_UnSignedInteger" use="required"/>
45 </xsd:complexType>
46 <xsd:simpleType name="ST_Char">
47   <xsd:restriction base="xsd:string">
48     <xsd:maxLength value="1"/>
49   </xsd:restriction>
50 </xsd:simpleType>
51 <xsd:complexType name="CT_Char">
52   <xsd:attribute name="val" type="ST_Char" use="required"/>
53 </xsd:complexType>
54 <xsd:complexType name="CT_OnOff">
55   <xsd:attribute name="val" type="s:ST_OnOff"/>
56 </xsd:complexType>
57 <xsd:complexType name="CT_String">
58   <xsd:attribute name="val" type="s:ST_String"/>
59 </xsd:complexType>
60 <xsd:complexType name="CT_XAlign">
61   <xsd:attribute name="val" type="s:ST_XAlign" use="required"/>
62 </xsd:complexType>
63 <xsd:complexType name="CT_YAlign">
64   <xsd:attribute name="val" type="s:ST_YAlign" use="required"/>
65 </xsd:complexType>
66 <xsd:simpleType name="ST_Shp">
67   <xsd:restriction base="xsd:string">
68     <xsd:enumeration value="centered"/>
69     <xsd:enumeration value="match"/>
70   </xsd:restriction>
71 </xsd:simpleType>
72 <xsd:complexType name="CT_Shp">
73   <xsd:attribute name="val" type="ST_Shp" use="required"/>
74 </xsd:complexType>
75 <xsd:simpleType name="ST_FType">
76   <xsd:restriction base="xsd:string">
77     <xsd:enumeration value="bar"/>
78     <xsd:enumeration value="skw"/>
79     <xsd:enumeration value="lin"/>

```

```

80      <xsd:enumeration value="noBar"/>
81    </xsd:restriction>
82  </xsd:simpleType>
83  <xsd:complexType name="CT_FType">
84    <xsd:attribute name="val" type="ST_FType" use="required"/>
85  </xsd:complexType>
86  <xsd:simpleType name="ST_LimLoc">
87    <xsd:restriction base="xsd:string">
88      <xsd:enumeration value="undOvr"/>
89      <xsd:enumeration value="subSup"/>
90    </xsd:restriction>
91  </xsd:simpleType>
92  <xsd:complexType name="CT_LimLoc">
93    <xsd:attribute name="val" type="ST_LimLoc" use="required"/>
94  </xsd:complexType>
95  <xsd:simpleType name="ST_TopBot">
96    <xsd:restriction base="xsd:string">
97      <xsd:enumeration value="top"/>
98      <xsd:enumeration value="bot"/>
99    </xsd:restriction>
100 </xsd:simpleType>
101 <xsd:complexType name="CT_TopBot">
102   <xsd:attribute name="val" type="ST_TopBot" use="required"/>
103 </xsd:complexType>
104 <xsd:simpleType name="ST_Script">
105   <xsd:restriction base="xsd:string">
106     <xsd:enumeration value="roman"/>
107     <xsd:enumeration value="script"/>
108     <xsd:enumeration value="fraktur"/>
109     <xsd:enumeration value="double-struct"/>
110     <xsd:enumeration value="sans-serif"/>
111     <xsd:enumeration value="monospace"/>
112   </xsd:restriction>
113 </xsd:simpleType>
114 <xsd:complexType name="CT_Script">
115   <xsd:attribute name="val" type="ST_Script"/>
116 </xsd:complexType>
117 <xsd:simpleType name="ST_Style">
118   <xsd:restriction base="xsd:string">
119     <xsd:enumeration value="p"/>
120     <xsd:enumeration value="b"/>
121     <xsd:enumeration value="i"/>
122     <xsd:enumeration value="bi"/>
123   </xsd:restriction>
124 </xsd:simpleType>
125 <xsd:complexType name="CT_Style">
126   <xsd:attribute name="val" type="ST_Style"/>
127 </xsd:complexType>
128 <xsd:complexType name="CT_ManualBreak">
129   <xsd:attribute name="alnAt" type="ST_Integer255"/>
130 </xsd:complexType>
131 <xsd:group name="EG_ScriptStyle">
132   <xsd:sequence>

```



```

133     <xsd:element name="scr" minOccurs="0" type="CT_Script"/>
134     <xsd:element name="sty" minOccurs="0" type="CT_Style"/>
135   </xsd:sequence>
136 </xsd:group>
137 <xsd:complexType name="CT_RPR">
138   <xsd:sequence>
139     <xsd:element name="lit" minOccurs="0" type="CT_OnOff"/>
140     <xsd:choice>
141       <xsd:element name="nor" minOccurs="0" type="CT_OnOff"/>
142       <xsd:sequence>
143         <xsd:group ref="EG_ScriptStyle"/>
144       </xsd:sequence>
145     </xsd:choice>
146     <xsd:element name="brk" minOccurs="0" type="CT_ManualBreak"/>
147     <xsd:element name="aln" minOccurs="0" type="CT_OnOff"/>
148   </xsd:sequence>
149 </xsd:complexType>
150 <xsd:complexType name="CT_Text">
151   <xsd:simpleContent>
152     <xsd:extension base="s:ST_String">
153       <xsd:attribute ref="xml:space" use="optional"/>
154     </xsd:extension>
155   </xsd:simpleContent>
156 </xsd:complexType>
157 <xsd:complexType name="CT_R">
158   <xsd:sequence>
159     <xsd:element name="rPr" type="CT_RPR" minOccurs="0"/>
160     <xsd:group ref="w:EG_RPr" minOccurs="0"/>
161     <xsd:choice minOccurs="0" maxOccurs="unbounded">
162       <xsd:group ref="w:EG_RunInnerContent"/>
163       <xsd:element name="t" type="CT_Text" minOccurs="0"/>
164     </xsd:choice>
165   </xsd:sequence>
166 </xsd:complexType>
167 <xsd:complexType name="CT_CtrlPr">
168   <xsd:sequence>
169     <xsd:group ref="w:EG_RPrMath" minOccurs="0"/>
170   </xsd:sequence>
171 </xsd:complexType>
172 <xsd:complexType name="CT_AccPr">
173   <xsd:sequence>
174     <xsd:element name="chr" type="CT_Char" minOccurs="0"/>
175     <xsd:element name="ctrlPr" type="CT_CtrlPr" minOccurs="0"/>
176   </xsd:sequence>
177 </xsd:complexType>
178 <xsd:complexType name="CT_Acc">
179   <xsd:sequence>
180     <xsd:element name="accPr" type="CT_AccPr" minOccurs="0"/>
181     <xsd:element name="e" type="CT_OMathArg"/>
182   </xsd:sequence>
183 </xsd:complexType>
184 <xsd:complexType name="CT_BarPr">
185   <xsd:sequence>

```



```

186     <xsd:element name="pos" type="CT_TopBot" minOccurs="0"/>
187     <xsd:element name="ctrlPr" type="CT_CtrlPr" minOccurs="0"/>
188   </xsd:sequence>
189 </xsd:complexType>
190 <xsd:complexType name="CT_Bar">
191   <xsd:sequence>
192     <xsd:element name="barPr" type="CT_BarPr" minOccurs="0"/>
193     <xsd:element name="e" type="CT_OMathArg"/>
194   </xsd:sequence>
195 </xsd:complexType>
196 <xsd:complexType name="CT_BoxPr">
197   <xsd:sequence>
198     <xsd:element name="opEmu" type="CT_OnOff" minOccurs="0"/>
199     <xsd:element name="noBreak" type="CT_OnOff" minOccurs="0"/>
200     <xsd:element name="diff" type="CT_OnOff" minOccurs="0"/>
201     <xsd:element name="brk" type="CT_ManualBreak" minOccurs="0"/>
202     <xsd:element name="aln" type="CT_OnOff" minOccurs="0"/>
203     <xsd:element name="ctrlPr" type="CT_CtrlPr" minOccurs="0"/>
204   </xsd:sequence>
205 </xsd:complexType>
206 <xsd:complexType name="CT_Box">
207   <xsd:sequence>
208     <xsd:element name="boxPr" type="CT_BoxPr" minOccurs="0"/>
209     <xsd:element name="e" type="CT_OMathArg"/>
210   </xsd:sequence>
211 </xsd:complexType>
212 <xsd:complexType name="CT_BorderBoxPr">
213   <xsd:sequence>
214     <xsd:element name="hideTop" type="CT_OnOff" minOccurs="0"/>
215     <xsd:element name="hideBot" type="CT_OnOff" minOccurs="0"/>
216     <xsd:element name="hideLeft" type="CT_OnOff" minOccurs="0"/>
217     <xsd:element name="hideRight" type="CT_OnOff" minOccurs="0"/>
218     <xsd:element name="strikeH" type="CT_OnOff" minOccurs="0"/>
219     <xsd:element name="strikeV" type="CT_OnOff" minOccurs="0"/>
220     <xsd:element name="strikeBLTR" type="CT_OnOff" minOccurs="0"/>
221     <xsd:element name="strikeTLBR" type="CT_OnOff" minOccurs="0"/>
222     <xsd:element name="ctrlPr" type="CT_CtrlPr" minOccurs="0"/>
223   </xsd:sequence>
224 </xsd:complexType>
225 <xsd:complexType name="CT_BorderBox">
226   <xsd:sequence>
227     <xsd:element name="borderBoxPr" type="CT_BorderBoxPr" minOccurs="0"/>
228     <xsd:element name="e" type="CT_OMathArg"/>
229   </xsd:sequence>
230 </xsd:complexType>
231 <xsd:complexType name="CT_DPr">
232   <xsd:sequence>
233     <xsd:element name="begChr" type="CT_Char" minOccurs="0"/>
234     <xsd:element name="sepChr" type="CT_Char" minOccurs="0"/>
235     <xsd:element name="endChr" type="CT_Char" minOccurs="0"/>
236     <xsd:element name="grow" type="CT_OnOff" minOccurs="0"/>
237     <xsd:element name="shp" type="CT_Shp" minOccurs="0"/>
238     <xsd:element name="ctrlPr" type="CT_CtrlPr" minOccurs="0"/>

```

```

239     </xsd:sequence>
240 </xsd:complexType>
241 <xsd:complexType name="CT_D">
242     <xsd:sequence>
243         <xsd:element name="dPr" type="CT_DPr" minOccurs="0"/>
244         <xsd:element name="e" type="CT_OMathArg" maxOccurs="unbounded"/>
245     </xsd:sequence>
246 </xsd:complexType>
247 <xsd:complexType name="CT_EqArrPr">
248     <xsd:sequence>
249         <xsd:element name="baseJc" type="CT_YAlign" minOccurs="0"/>
250         <xsd:element name="maxDist" type="CT_OnOff" minOccurs="0"/>
251         <xsd:element name="objDist" type="CT_OnOff" minOccurs="0"/>
252         <xsd:element name="rSpRule" type="CT_SpacingRule" minOccurs="0"/>
253         <xsd:element name="rSp" type="CT_UnSignedInteger" minOccurs="0"/>
254         <xsd:element name="ctrlPr" type="CT_CtrlPr" minOccurs="0"/>
255     </xsd:sequence>
256 </xsd:complexType>
257 <xsd:complexType name="CT_EqArr">
258     <xsd:sequence>
259         <xsd:element name="eqArrPr" type="CT_EqArrPr" minOccurs="0"/>
260         <xsd:element name="e" type="CT_OMathArg" maxOccurs="unbounded"/>
261     </xsd:sequence>
262 </xsd:complexType>
263 <xsd:complexType name="CT_FPr">
264     <xsd:sequence>
265         <xsd:element name="type" type="CT_FType" minOccurs="0"/>
266         <xsd:element name="ctrlPr" type="CT_CtrlPr" minOccurs="0"/>
267     </xsd:sequence>
268 </xsd:complexType>
269 <xsd:complexType name="CT_F">
270     <xsd:sequence>
271         <xsd:element name="fPr" type="CT_FPr" minOccurs="0"/>
272         <xsd:element name="num" type="CT_OMathArg"/>
273         <xsd:element name="den" type="CT_OMathArg"/>
274     </xsd:sequence>
275 </xsd:complexType>
276 <xsd:complexType name="CT_FuncPr">
277     <xsd:sequence>
278         <xsd:element name="ctrlPr" type="CT_CtrlPr" minOccurs="0"/>
279     </xsd:sequence>
280 </xsd:complexType>
281 <xsd:complexType name="CT_Func">
282     <xsd:sequence>
283         <xsd:element name="funcPr" type="CT_FuncPr" minOccurs="0"/>
284         <xsd:element name="fName" type="CT_OMathArg"/>
285         <xsd:element name="e" type="CT_OMathArg"/>
286     </xsd:sequence>
287 </xsd:complexType>
288 <xsd:complexType name="CT_GroupChrPr">
289     <xsd:sequence>
290         <xsd:element name="chr" type="CT_Char" minOccurs="0"/>
291         <xsd:element name="pos" type="CT_TopBot" minOccurs="0"/>

```

```

292     <xsd:element name="vertJc" type="CT_TopBot" minOccurs="0"/>
293     <xsd:element name="ctrlPr" type="CT_CtrlPr" minOccurs="0"/>
294   </xsd:sequence>
295 </xsd:complexType>
296 <xsd:complexType name="CT_GroupChr">
297   <xsd:sequence>
298     <xsd:element name="groupChrPr" type="CT_GroupChrPr" minOccurs="0"/>
299     <xsd:element name="e" type="CT_OMathArg"/>
300   </xsd:sequence>
301 </xsd:complexType>
302 <xsd:complexType name="CT_LimLowPr">
303   <xsd:sequence>
304     <xsd:element name="ctrlPr" type="CT_CtrlPr" minOccurs="0"/>
305   </xsd:sequence>
306 </xsd:complexType>
307 <xsd:complexType name="CT_LimLow">
308   <xsd:sequence>
309     <xsd:element name="limLowPr" type="CT_LimLowPr" minOccurs="0"/>
310     <xsd:element name="e" type="CT_OMathArg"/>
311     <xsd:element name="lim" type="CT_OMathArg"/>
312   </xsd:sequence>
313 </xsd:complexType>
314 <xsd:complexType name="CT_LimUpPr">
315   <xsd:sequence>
316     <xsd:element name="ctrlPr" type="CT_CtrlPr" minOccurs="0"/>
317   </xsd:sequence>
318 </xsd:complexType>
319 <xsd:complexType name="CT_LimUp">
320   <xsd:sequence>
321     <xsd:element name="limUpPr" type="CT_LimUpPr" minOccurs="0"/>
322     <xsd:element name="e" type="CT_OMathArg"/>
323     <xsd:element name="lim" type="CT_OMathArg"/>
324   </xsd:sequence>
325 </xsd:complexType>
326 <xsd:complexType name="CT_MCPr">
327   <xsd:sequence>
328     <xsd:element name="count" type="CT_Integer255" minOccurs="0"/>
329     <xsd:element name="mcJc" type="CT_XAlign" minOccurs="0"/>
330   </xsd:sequence>
331 </xsd:complexType>
332 <xsd:complexType name="CT_MC">
333   <xsd:sequence>
334     <xsd:element name="mcPr" type="CT_MCPr" minOccurs="0"/>
335   </xsd:sequence>
336 </xsd:complexType>
337 <xsd:complexType name="CT_MCS">
338   <xsd:sequence>
339     <xsd:element name="mc" type="CT_MC" maxOccurs="unbounded"/>
340   </xsd:sequence>
341 </xsd:complexType>
342 <xsd:complexType name="CT_MPr">
343   <xsd:sequence>
344     <xsd:element name="baseJc" type="CT_YAlign" minOccurs="0"/>

```

```

345     <xsd:element name="plcHide" type="CT_OnOff" minOccurs="0"/>
346     <xsd:element name="rSpRule" type="CT_SpacingRule" minOccurs="0"/>
347     <xsd:element name="cGpRule" type="CT_SpacingRule" minOccurs="0"/>
348     <xsd:element name="rSp" type="CT_UnSignedInteger" minOccurs="0"/>
349     <xsd:element name="cSp" type="CT_UnSignedInteger" minOccurs="0"/>
350     <xsd:element name="cGp" type="CT_UnSignedInteger" minOccurs="0"/>
351     <xsd:element name="mcs" type="CT_MCS" minOccurs="0"/>
352     <xsd:element name="ctrlPr" type="CT_CtrlPr" minOccurs="0"/>
353   </xsd:sequence>
354 </xsd:complexType>
355 <xsd:complexType name="CT_MR">
356   <xsd:sequence>
357     <xsd:element name="e" type="CT_OMathArg" maxOccurs="unbounded"/>
358   </xsd:sequence>
359 </xsd:complexType>
360 <xsd:complexType name="CT_M">
361   <xsd:sequence>
362     <xsd:element name="mPr" type="CT_MPr" minOccurs="0"/>
363     <xsd:element name="mr" type="CT_MR" maxOccurs="unbounded"/>
364   </xsd:sequence>
365 </xsd:complexType>
366 <xsd:complexType name="CT_NaryPr">
367   <xsd:sequence>
368     <xsd:element name="chr" type="CT_Char" minOccurs="0"/>
369     <xsd:element name="limLoc" type="CT_LimLoc" minOccurs="0"/>
370     <xsd:element name="grow" type="CT_OnOff" minOccurs="0"/>
371     <xsd:element name="subHide" type="CT_OnOff" minOccurs="0"/>
372     <xsd:element name="supHide" type="CT_OnOff" minOccurs="0"/>
373     <xsd:element name="ctrlPr" type="CT_CtrlPr" minOccurs="0"/>
374   </xsd:sequence>
375 </xsd:complexType>
376 <xsd:complexType name="CT_Nary">
377   <xsd:sequence>
378     <xsd:element name="naryPr" type="CT_NaryPr" minOccurs="0"/>
379     <xsd:element name="sub" type="CT_OMathArg"/>
380     <xsd:element name="sup" type="CT_OMathArg"/>
381     <xsd:element name="e" type="CT_OMathArg"/>
382   </xsd:sequence>
383 </xsd:complexType>
384 <xsd:complexType name="CT_PhantPr">
385   <xsd:sequence>
386     <xsd:element name="show" type="CT_OnOff" minOccurs="0"/>
387     <xsd:element name="zeroWid" type="CT_OnOff" minOccurs="0"/>
388     <xsd:element name="zeroAsc" type="CT_OnOff" minOccurs="0"/>
389     <xsd:element name="zeroDesc" type="CT_OnOff" minOccurs="0"/>
390     <xsd:element name="transp" type="CT_OnOff" minOccurs="0"/>
391     <xsd:element name="ctrlPr" type="CT_CtrlPr" minOccurs="0"/>
392   </xsd:sequence>
393 </xsd:complexType>
394 <xsd:complexType name="CT_Phant">
395   <xsd:sequence>
396     <xsd:element name="phantPr" type="CT_PhantPr" minOccurs="0"/>
397     <xsd:element name="e" type="CT_OMathArg"/>

```

```

398     </xsd:sequence>
399 </xsd:complexType>
400 <xsd:complexType name="CT_RadPr">
401     <xsd:sequence>
402         <xsd:element name="degHide" type="CT_OnOff" minOccurs="0"/>
403         <xsd:element name="ctrlPr" type="CT_CtrlPr" minOccurs="0"/>
404     </xsd:sequence>
405 </xsd:complexType>
406 <xsd:complexType name="CT_Rad">
407     <xsd:sequence>
408         <xsd:element name="radPr" type="CT_RadPr" minOccurs="0"/>
409         <xsd:element name="deg" type="CT_OMathArg"/>
410         <xsd:element name="e" type="CT_OMathArg"/>
411     </xsd:sequence>
412 </xsd:complexType>
413 <xsd:complexType name="CT_SPrePr">
414     <xsd:sequence>
415         <xsd:element name="ctrlPr" type="CT_CtrlPr" minOccurs="0"/>
416     </xsd:sequence>
417 </xsd:complexType>
418 <xsd:complexType name="CT_SPre">
419     <xsd:sequence>
420         <xsd:element name="sPrePr" type="CT_SPrePr" minOccurs="0"/>
421         <xsd:element name="sub" type="CT_OMathArg"/>
422         <xsd:element name="sup" type="CT_OMathArg"/>
423         <xsd:element name="e" type="CT_OMathArg"/>
424     </xsd:sequence>
425 </xsd:complexType>
426 <xsd:complexType name="CT_SSubPr">
427     <xsd:sequence>
428         <xsd:element name="ctrlPr" type="CT_CtrlPr" minOccurs="0"/>
429     </xsd:sequence>
430 </xsd:complexType>
431 <xsd:complexType name="CT_SSub">
432     <xsd:sequence>
433         <xsd:element name="sSubPr" type="CT_SSubPr" minOccurs="0"/>
434         <xsd:element name="e" type="CT_OMathArg"/>
435         <xsd:element name="sub" type="CT_OMathArg"/>
436     </xsd:sequence>
437 </xsd:complexType>
438 <xsd:complexType name="CT_SSubSupPr">
439     <xsd:sequence>
440         <xsd:element name="alnScr" type="CT_OnOff" minOccurs="0"/>
441         <xsd:element name="ctrlPr" type="CT_CtrlPr" minOccurs="0"/>
442     </xsd:sequence>
443 </xsd:complexType>
444 <xsd:complexType name="CT_SSubSup">
445     <xsd:sequence>
446         <xsd:element name="sSubSupPr" type="CT_SSubSupPr" minOccurs="0"/>
447         <xsd:element name="e" type="CT_OMathArg"/>
448         <xsd:element name="sub" type="CT_OMathArg"/>
449         <xsd:element name="sup" type="CT_OMathArg"/>
450     </xsd:sequence>

```

```

451 </xsd:complexType>
452 <xsd:complexType name="CT_SSupPr">
453   <xsd:sequence>
454     <xsd:element name="ctrlPr" type="CT_CtrlPr" minOccurs="0"/>
455   </xsd:sequence>
456 </xsd:complexType>
457 <xsd:complexType name="CT_SSup">
458   <xsd:sequence>
459     <xsd:element name="sSupPr" type="CT_SSupPr" minOccurs="0"/>
460     <xsd:element name="e" type="CT_OMathArg"/>
461     <xsd:element name="sup" type="CT_OMathArg"/>
462   </xsd:sequence>
463 </xsd:complexType>
464 <xsd:group name="EG_OMathMathElements">
465   <xsd:choice>
466     <xsd:element name="acc" type="CT_Acc"/>
467     <xsd:element name="bar" type="CT_Bar"/>
468     <xsd:element name="box" type="CT_Box"/>
469     <xsd:element name="borderBox" type="CT_BorderBox"/>
470     <xsd:element name="d" type="CT_D"/>
471     <xsd:element name="eqArr" type="CT_EqArr"/>
472     <xsd:element name="f" type="CT_F"/>
473     <xsd:element name="func" type="CT_Func"/>
474     <xsd:element name="groupChr" type="CT_GroupChr"/>
475     <xsd:element name="limLow" type="CT_LimLow"/>
476     <xsd:element name="limUpp" type="CT_LimUpp"/>
477     <xsd:element name="m" type="CT_M"/>
478     <xsd:element name="nary" type="CT_Nary"/>
479     <xsd:element name="phant" type="CT_Phant"/>
480     <xsd:element name="rad" type="CT_Rad"/>
481     <xsd:element name="sPre" type="CT_SPre"/>
482     <xsd:element name="sSub" type="CT_SSub"/>
483     <xsd:element name="sSubSup" type="CT_SSubSup"/>
484     <xsd:element name="sSup" type="CT_SSup"/>
485     <xsd:element name="r" type="CT_R"/>
486   </xsd:choice>
487 </xsd:group>
488 <xsd:group name="EG_OMathElements">
489   <xsd:choice>
490     <xsd:group ref="EG_OMathMathElements"/>
491     <xsd:group ref="w:EG_PContentMath"/>
492   </xsd:choice>
493 </xsd:group>
494 <xsd:complexType name="CT_OMathArgPr">
495   <xsd:sequence>
496     <xsd:element name="argSz" type="CT_Integer2" minOccurs="0"/>
497   </xsd:sequence>
498 </xsd:complexType>
499 <xsd:complexType name="CT_OMathArg">
500   <xsd:sequence>
501     <xsd:element name="argPr" type="CT_OMathArgPr" minOccurs="0"/>
502     <xsd:group ref="EG_OMathElements" minOccurs="0" maxOccurs="unbounded"/>
503     <xsd:element name="ctrlPr" type="CT_CtrlPr" minOccurs="0"/>

```

```

504     </xsd:sequence>
505 </xsd:complexType>
506 <xsd:simpleType name="ST_Jc">
507     <xsd:restriction base="xsd:string">
508         <xsd:enumeration value="left"/>
509         <xsd:enumeration value="right"/>
510         <xsd:enumeration value="center"/>
511         <xsd:enumeration value="centerGroup"/>
512     </xsd:restriction>
513 </xsd:simpleType>
514 <xsd:complexType name="CT_OMathJc">
515     <xsd:attribute name="val" type="ST_Jc"/>
516 </xsd:complexType>
517 <xsd:complexType name="CT_OMathParaPr">
518     <xsd:sequence>
519         <xsd:element name="jc" type="CT_OMathJc" minOccurs="0"/>
520     </xsd:sequence>
521 </xsd:complexType>
522 <xsd:complexType name="CT_TwipsMeasure">
523     <xsd:attribute name="val" type="s:ST_TwipsMeasure" use="required"/>
524 </xsd:complexType>
525 <xsd:simpleType name="ST_BreakBin">
526     <xsd:restriction base="xsd:string">
527         <xsd:enumeration value="before"/>
528         <xsd:enumeration value="after"/>
529         <xsd:enumeration value="repeat"/>
530     </xsd:restriction>
531 </xsd:simpleType>
532 <xsd:complexType name="CT_BreakBin">
533     <xsd:attribute name="val" type="ST_BreakBin"/>
534 </xsd:complexType>
535 <xsd:simpleType name="ST_BreakBinSub">
536     <xsd:restriction base="xsd:string">
537         <xsd:enumeration value="--"/>
538         <xsd:enumeration value="-+"/>
539         <xsd:enumeration value="+-"/>
540     </xsd:restriction>
541 </xsd:simpleType>
542 <xsd:complexType name="CT_BreakBinSub">
543     <xsd:attribute name="val" type="ST_BreakBinSub"/>
544 </xsd:complexType>
545 <xsd:complexType name="CT_MathPr">
546     <xsd:sequence>
547         <xsd:element name="mathFont" type="CT_String" minOccurs="0"/>
548         <xsd:element name="brkBin" type="CT_BreakBin" minOccurs="0"/>
549         <xsd:element name="brkBinSub" type="CT_BreakBinSub" minOccurs="0"/>
550         <xsd:element name="smallFrac" type="CT_OnOff" minOccurs="0"/>
551         <xsd:element name="dispDef" type="CT_OnOff" minOccurs="0"/>
552         <xsd:element name="lMargin" type="CT_TwipsMeasure" minOccurs="0"/>
553         <xsd:element name="rMargin" type="CT_TwipsMeasure" minOccurs="0"/>
554         <xsd:element name="defJc" type="CT_OMathJc" minOccurs="0"/>
555         <xsd:element name="preSp" type="CT_TwipsMeasure" minOccurs="0"/>
556         <xsd:element name="postSp" type="CT_TwipsMeasure" minOccurs="0"/>

```



```

557     <xsd:element name="interSp" type="CT_TwipsMeasure" minOccurs="0"/>
558     <xsd:element name="intraSp" type="CT_TwipsMeasure" minOccurs="0"/>
559     <xsd:choice minOccurs="0">
560         <xsd:element name="wrapIndent" type="CT_TwipsMeasure"/>
561         <xsd:element name="wrapRight" type="CT_OnOff"/>
562     </xsd:choice>
563     <xsd:element name="intLim" type="CT_LimLoc" minOccurs="0"/>
564     <xsd:element name="naryLim" type="CT_LimLoc" minOccurs="0"/>
565 </xsd:sequence>
566 </xsd:complexType>
567 <xsd:element name="mathPr" type="CT_MathPr"/>
568 <xsd:complexType name="CT_OMathPara">
569     <xsd:sequence>
570         <xsd:element name="oMathParaPr" type="CT_OMathParaPr" minOccurs="0"/>
571         <xsd:element name="oMath" type="CT_OMath" maxOccurs="unbounded"/>
572     </xsd:sequence>
573 </xsd:complexType>
574 <xsd:complexType name="CT_OMath">
575     <xsd:sequence>
576         <xsd:group ref="EG_OMathElements" minOccurs="0" maxOccurs="unbounded"/>
577     </xsd:sequence>
578 </xsd:complexType>
579 <xsd:element name="oMathPara" type="CT_OMathPara"/>
580 <xsd:element name="oMath" type="CT_OMath"/>
581 </xsd:schema>

```

## A.7.2 Extended Properties

This schema is available in the file shared-documentPropertiesExtended.xsd.

```

1  <xsd:schema xmlns="http://schemas.openxmlformats.org/officeDocument/2006/extended-properties"
2  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
3  xmlns:vt="http://schemas.openxmlformats.org/officeDocument/2006/docPropsVTypes"
4  targetNamespace="http://schemas.openxmlformats.org/officeDocument/2006/extended-properties"
5  elementFormDefault="qualified" blockDefault="#all">
6      <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/docPropsVTypes"
7      schemaLocation="shared-documentPropertiesVariantTypes.xsd"/>
8      <xsd:element name="Properties" type="CT_Properties"/>
9      <xsd:complexType name="CT_Properties">
10         <xsd:all>
11             <xsd:element name="Template" minOccurs="0" maxOccurs="1" type="xsd:string"/>
12             <xsd:element name="Manager" minOccurs="0" maxOccurs="1" type="xsd:string"/>
13             <xsd:element name="Company" minOccurs="0" maxOccurs="1" type="xsd:string"/>
14             <xsd:element name="Pages" minOccurs="0" maxOccurs="1" type="xsd:int"/>
15             <xsd:element name="Words" minOccurs="0" maxOccurs="1" type="xsd:int"/>
16             <xsd:element name="Characters" minOccurs="0" maxOccurs="1" type="xsd:int"/>
17             <xsd:element name="PresentationFormat" minOccurs="0" maxOccurs="1" type="xsd:string"/>
18             <xsd:element name="Lines" minOccurs="0" maxOccurs="1" type="xsd:int"/>
19             <xsd:element name="Paragraphs" minOccurs="0" maxOccurs="1" type="xsd:int"/>
20             <xsd:element name="Slides" minOccurs="0" maxOccurs="1" type="xsd:int"/>
21             <xsd:element name="Notes" minOccurs="0" maxOccurs="1" type="xsd:int"/>
22             <xsd:element name="TotalTime" minOccurs="0" maxOccurs="1" type="xsd:int"/>
23             <xsd:element name="HiddenSlides" minOccurs="0" maxOccurs="1" type="xsd:int"/>

```



```

24     <xsd:element name="MMClips" minOccurs="0" maxOccurs="1" type="xsd:int"/>
25     <xsd:element name="ScaleCrop" minOccurs="0" maxOccurs="1" type="xsd:boolean"/>
26     <xsd:element name="HeadingPairs" minOccurs="0" maxOccurs="1" type="CT_VectorVariant"/>
27     <xsd:element name="TitlesOfParts" minOccurs="0" maxOccurs="1" type="CT_VectorLpstr"/>
28     <xsd:element name="LinksUpToDate" minOccurs="0" maxOccurs="1" type="xsd:boolean"/>
29     <xsd:element name="CharactersWithSpaces" minOccurs="0" maxOccurs="1" type="xsd:int"/>
30     <xsd:element name="SharedDoc" minOccurs="0" maxOccurs="1" type="xsd:boolean"/>
31     <xsd:element name="HyperlinkBase" minOccurs="0" maxOccurs="1" type="xsd:string"/>
32     <xsd:element name="HLinks" minOccurs="0" maxOccurs="1" type="CT_VectorVariant"/>
33     <xsd:element name="HyperlinksChanged" minOccurs="0" maxOccurs="1" type="xsd:boolean"/>
34     <xsd:element name="DigSig" minOccurs="0" maxOccurs="1" type="CT_DigSigBlob"/>
35     <xsd:element name="Application" minOccurs="0" maxOccurs="1" type="xsd:string"/>
36     <xsd:element name="AppVersion" minOccurs="0" maxOccurs="1" type="xsd:string"/>
37     <xsd:element name="DocSecurity" minOccurs="0" maxOccurs="1" type="xsd:int"/>
38   </xsd:all>
39 </xsd:complexType>
40 <xsd:complexType name="CT_VectorVariant">
41   <xsd:sequence minOccurs="1" maxOccurs="1">
42     <xsd:element ref="vt:vector"/>
43   </xsd:sequence>
44 </xsd:complexType>
45 <xsd:complexType name="CT_VectorLpstr">
46   <xsd:sequence minOccurs="1" maxOccurs="1">
47     <xsd:element ref="vt:vector"/>
48   </xsd:sequence>
49 </xsd:complexType>
50 <xsd:complexType name="CT_DigSigBlob">
51   <xsd:sequence minOccurs="1" maxOccurs="1">
52     <xsd:element ref="vt:blob"/>
53   </xsd:sequence>
54 </xsd:complexType>
55 </xsd:schema>

```

### A.7.3 Custom Properties

This schema is available in the file shared-documentPropertiesCustom.xsd.

```

1 <xsd:schema xmlns="http://schemas.openxmlformats.org/officeDocument/2006/custom-properties"
2   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
3   xmlns:vt="http://schemas.openxmlformats.org/officeDocument/2006/docPropsVTypes"
4   xmlns:s="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes"
5   targetNamespace="http://schemas.openxmlformats.org/officeDocument/2006/custom-properties"
6   blockDefault="#all" elementFormDefault="qualified">
7   <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/docPropsVTypes"
8     schemaLocation="shared-documentPropertiesVariantTypes.xsd"/>
9   <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes"
10     schemaLocation="shared-commonSimpleTypes.xsd"/>
11   <xsd:element name="Properties" type="CT_Properties"/>
12   <xsd:complexType name="CT_Properties">
13     <xsd:sequence>
14       <xsd:element name="property" minOccurs="0" maxOccurs="unbounded" type="CT_Property"/>
15     </xsd:sequence>
16   </xsd:complexType>

```

```

17 <xsd:complexType name="CT_Property">
18   <xsd:choice minOccurs="1" maxOccurs="1">
19     <xsd:element ref="vt:vector"/>
20     <xsd:element ref="vt:array"/>
21     <xsd:element ref="vt:blob"/>
22     <xsd:element ref="vt:oblob"/>
23     <xsd:element ref="vt:empty"/>
24     <xsd:element ref="vt:null"/>
25     <xsd:element ref="vt:i1"/>
26     <xsd:element ref="vt:i2"/>
27     <xsd:element ref="vt:i4"/>
28     <xsd:element ref="vt:i8"/>
29     <xsd:element ref="vt:int"/>
30     <xsd:element ref="vt:ui1"/>
31     <xsd:element ref="vt:ui2"/>
32     <xsd:element ref="vt:ui4"/>
33     <xsd:element ref="vt:ui8"/>
34     <xsd:element ref="vt:uint"/>
35     <xsd:element ref="vt:r4"/>
36     <xsd:element ref="vt:r8"/>
37     <xsd:element ref="vt:decimal"/>
38     <xsd:element ref="vt:lpstr"/>
39     <xsd:element ref="vt:lpwstr"/>
40     <xsd:element ref="vt:bstr"/>
41     <xsd:element ref="vt:date"/>
42     <xsd:element ref="vt:filetime"/>
43     <xsd:element ref="vt:bool"/>
44     <xsd:element ref="vt:cy"/>
45     <xsd:element ref="vt:error"/>
46     <xsd:element ref="vt:stream"/>
47     <xsd:element ref="vt:ostream"/>
48     <xsd:element ref="vt:storage"/>
49     <xsd:element ref="vt:ostorage"/>
50     <xsd:element ref="vt:vstream"/>
51     <xsd:element ref="vt:clsid"/>
52   </xsd:choice>
53   <xsd:attribute name="fmtid" use="required" type="s:ST_Guid"/>
54   <xsd:attribute name="pid" use="required" type="xsd:int"/>
55   <xsd:attribute name="name" use="optional" type="xsd:string"/>
56   <xsd:attribute name="linkTarget" use="optional" type="xsd:string"/>
57 </xsd:complexType>
58 </xsd:schema>

```

#### A.7.4 Variant Types

This schema is available in the file shared-documentPropertiesVariantTypes.xsd.

```

1 <xsd:schema xmlns="http://schemas.openxmlformats.org/officeDocument/2006/docPropsVTypes"
2   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
3   xmlns:s="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes"
4   targetNamespace="http://schemas.openxmlformats.org/officeDocument/2006/docPropsVTypes"
5   blockDefault="#all" elementFormDefault="qualified">

```

```

6 <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes"
7   schemaLocation="shared-commonSimpleTypes.xsd"/>
8 <xsd:simpleType name="ST_VectorBaseType">
9   <xsd:restriction base="xsd:string">
10     <xsd:enumeration value="variant"/>
11     <xsd:enumeration value="i1"/>
12     <xsd:enumeration value="i2"/>
13     <xsd:enumeration value="i4"/>
14     <xsd:enumeration value="i8"/>
15     <xsd:enumeration value="ui1"/>
16     <xsd:enumeration value="ui2"/>
17     <xsd:enumeration value="ui4"/>
18     <xsd:enumeration value="ui8"/>
19     <xsd:enumeration value="r4"/>
20     <xsd:enumeration value="r8"/>
21     <xsd:enumeration value="lpstr"/>
22     <xsd:enumeration value="lpwstr"/>
23     <xsd:enumeration value="bstr"/>
24     <xsd:enumeration value="date"/>
25     <xsd:enumeration value="filetime"/>
26     <xsd:enumeration value="bool"/>
27     <xsd:enumeration value="cy"/>
28     <xsd:enumeration value="error"/>
29     <xsd:enumeration value="clsid"/>
30   </xsd:restriction>
31 </xsd:simpleType>
32 <xsd:simpleType name="ST_ArrayBaseType">
33   <xsd:restriction base="xsd:string">
34     <xsd:enumeration value="variant"/>
35     <xsd:enumeration value="i1"/>
36     <xsd:enumeration value="i2"/>
37     <xsd:enumeration value="i4"/>
38     <xsd:enumeration value="int"/>
39     <xsd:enumeration value="ui1"/>
40     <xsd:enumeration value="ui2"/>
41     <xsd:enumeration value="ui4"/>
42     <xsd:enumeration value="uint"/>
43     <xsd:enumeration value="r4"/>
44     <xsd:enumeration value="r8"/>
45     <xsd:enumeration value="decimal"/>
46     <xsd:enumeration value="bstr"/>
47     <xsd:enumeration value="date"/>
48     <xsd:enumeration value="bool"/>
49     <xsd:enumeration value="cy"/>
50     <xsd:enumeration value="error"/>
51   </xsd:restriction>
52 </xsd:simpleType>
53 <xsd:simpleType name="ST_Cy">
54   <xsd:restriction base="xsd:string">
55     <xsd:pattern value="\s*[0-9]*\.[0-9]{4}\s*" />
56   </xsd:restriction>
57 </xsd:simpleType>
58 <xsd:simpleType name="ST_Error">

```

```

59      <xsd:restriction base="xsd:string">
60        <xsd:pattern value="\s*\0x[0-9A-Za-z]{8}\s*" />
61      </xsd:restriction>
62    </xsd:simpleType>
63    <xsd:complexType name="CT_Empty" />
64    <xsd:complexType name="CT_Null" />
65    <xsd:complexType name="CT_Vector">
66      <xsd:choice minOccurs="1" maxOccurs="unbounded">
67        <xsd:element ref="variant" />
68        <xsd:element ref="i1" />
69        <xsd:element ref="i2" />
70        <xsd:element ref="i4" />
71        <xsd:element ref="i8" />
72        <xsd:element ref="ui1" />
73        <xsd:element ref="ui2" />
74        <xsd:element ref="ui4" />
75        <xsd:element ref="ui8" />
76        <xsd:element ref="r4" />
77        <xsd:element ref="r8" />
78        <xsd:element ref="lpstr" />
79        <xsd:element ref="lpwstr" />
80        <xsd:element ref="bstr" />
81        <xsd:element ref="date" />
82        <xsd:element ref="filetime" />
83        <xsd:element ref="bool" />
84        <xsd:element ref="cy" />
85        <xsd:element ref="error" />
86        <xsd:element ref="clsid" />
87      </xsd:choice>
88      <xsd:attribute name="baseType" type="ST_VectorBaseType" use="required" />
89      <xsd:attribute name="size" type="xsd:unsignedInt" use="required" />
90    </xsd:complexType>
91    <xsd:complexType name="CT_Array">
92      <xsd:choice minOccurs="1" maxOccurs="unbounded">
93        <xsd:element ref="variant" />
94        <xsd:element ref="i1" />
95        <xsd:element ref="i2" />
96        <xsd:element ref="i4" />
97        <xsd:element ref="int" />
98        <xsd:element ref="ui1" />
99        <xsd:element ref="ui2" />
100       <xsd:element ref="ui4" />
101       <xsd:element ref="uint" />
102       <xsd:element ref="r4" />
103       <xsd:element ref="r8" />
104       <xsd:element ref="decimal" />
105       <xsd:element ref="bstr" />
106       <xsd:element ref="date" />
107       <xsd:element ref="bool" />
108       <xsd:element ref="error" />
109       <xsd:element ref="cy" />
110     </xsd:choice>
111     <xsd:attribute name="lBounds" type="xsd:int" use="required" />

```

```

112     <xsd:attribute name="uBounds" type="xsd:int" use="required"/>
113     <xsd:attribute name="baseType" type="ST_ArrayBaseType" use="required"/>
114 </xsd:complexType>
115 <xsd:complexType name="CT_Variant">
116     <xsd:choice minOccurs="1" maxOccurs="1">
117         <xsd:element ref="variant"/>
118         <xsd:element ref="vector"/>
119         <xsd:element ref="array"/>
120         <xsd:element ref="blob"/>
121         <xsd:element ref="oblob"/>
122         <xsd:element ref="empty"/>
123         <xsd:element ref="null"/>
124         <xsd:element ref="i1"/>
125         <xsd:element ref="i2"/>
126         <xsd:element ref="i4"/>
127         <xsd:element ref="i8"/>
128         <xsd:element ref="int"/>
129         <xsd:element ref="ui1"/>
130         <xsd:element ref="ui2"/>
131         <xsd:element ref="ui4"/>
132         <xsd:element ref="ui8"/>
133         <xsd:element ref="uint"/>
134         <xsd:element ref="r4"/>
135         <xsd:element ref="r8"/>
136         <xsd:element ref="decimal"/>
137         <xsd:element ref="lpstr"/>
138         <xsd:element ref="lpwstr"/>
139         <xsd:element ref="bstr"/>
140         <xsd:element ref="date"/>
141         <xsd:element ref="filetime"/>
142         <xsd:element ref="bool"/>
143         <xsd:element ref="cy"/>
144         <xsd:element ref="error"/>
145         <xsd:element ref="stream"/>
146         <xsd:element ref="ostream"/>
147         <xsd:element ref="Storage"/>
148         <xsd:element ref="ostorage"/>
149         <xsd:element ref="vstream"/>
150         <xsd:element ref="clsid"/>
151     </xsd:choice>
152 </xsd:complexType>
153 <xsd:complexType name="CT_Vstream">
154     <xsd:simpleContent>
155         <xsd:extension base="xsd:base64Binary">
156             <xsd:attribute name="version" type="s:ST_Guid"/>
157         </xsd:extension>
158     </xsd:simpleContent>
159 </xsd:complexType>
160 <xsd:element name="variant" type="CT_Variant"/>
161 <xsd:element name="vector" type="CT_Vector"/>
162 <xsd:element name="array" type="CT_Array"/>
163 <xsd:element name="blob" type="xsd:base64Binary"/>
164 <xsd:element name="oblob" type="xsd:base64Binary"/>

```

```

165 <xsd:element name="empty" type="CT_Empty"/>
166 <xsd:element name="null" type="CT_Null"/>
167 <xsd:element name="i1" type="xsd:byte"/>
168 <xsd:element name="i2" type="xsd:short"/>
169 <xsd:element name="i4" type="xsd:int"/>
170 <xsd:element name="i8" type="xsd:long"/>
171 <xsd:element name="int" type="xsd:int"/>
172 <xsd:element name="ui1" type="xsd:unsignedByte"/>
173 <xsd:element name="ui2" type="xsd:unsignedShort"/>
174 <xsd:element name="ui4" type="xsd:unsignedInt"/>
175 <xsd:element name="ui8" type="xsd:unsignedLong"/>
176 <xsd:element name="uint" type="xsd:unsignedInt"/>
177 <xsd:element name="r4" type="xsd:float"/>
178 <xsd:element name="r8" type="xsd:double"/>
179 <xsd:element name="decimal" type="xsd:decimal"/>
180 <xsd:element name="lpstr" type="xsd:string"/>
181 <xsd:element name="lpwstr" type="xsd:string"/>
182 <xsd:element name="bstr" type="xsd:string"/>
183 <xsd:element name="date" type="xsd:dateTime"/>
184 <xsd:element name="filetime" type="xsd:dateTime"/>
185 <xsd:element name="bool" type="xsd:boolean"/>
186 <xsd:element name="cy" type="ST_Cy"/>
187 <xsd:element name="error" type="ST_Error"/>
188 <xsd:element name="stream" type="xsd:base64Binary"/>
189 <xsd:element name="ostream" type="xsd:base64Binary"/>
190 <xsd:element name="storage" type="xsd:base64Binary"/>
191 <xsd:element name="ostorage" type="xsd:base64Binary"/>
192 <xsd:element name="vstream" type="CT_Vstream"/>
193 <xsd:element name="clsid" type="s:ST_Guid"/>
194 </xsd:schema>

```

### A.7.5 Custom XML Data Properties

This schema is available in the file shared-customXmlDataProperties.xsd.

```

1 <xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
2   xmlns="http://schemas.openxmlformats.org/officeDocument/2006/customXml"
3   xmlns:s="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes"
4   targetNamespace="http://schemas.openxmlformats.org/officeDocument/2006/customXml"
5   elementFormDefault="qualified" attributeFormDefault="qualified" blockDefault="#all">
6   <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes"
7     schemaLocation="shared-commonSimpleTypes.xsd"/>
8   <xsd:complexType name="CT_DatastoreSchemaRef">
9     <xsd:attribute name="uri" type="xsd:string" use="required"/>
10  </xsd:complexType>
11  <xsd:complexType name="CT_DatastoreSchemaRefs">
12    <xsd:sequence>
13      <xsd:element name="schemaRef" type="CT_DatastoreSchemaRef" minOccurs="0"
14        maxOccurs="unbounded"/>
15    </xsd:sequence>
16  </xsd:complexType>
17  <xsd:complexType name="CT_DatastoreItem">
18    <xsd:sequence>

```

```

19     <xsd:element name="schemaRefs" type="CT_DatastoreSchemaRefs" minOccurs="0"/>
20   </xsd:sequence>
21   <xsd:attribute name="itemID" type="s:ST_Guid" use="required"/>
22 </xsd:complexType>
23 <xsd:element name="datastoreItem" type="CT_DatastoreItem"/>
24 </xsd:schema>

```

## A.7.6 Bibliography

This schema is available in the file shared-bibliography.xsd.

```

1 <xsd:schema xmlns="http://schemas.openxmlformats.org/officeDocument/2006/bibliography"
2   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
3   xmlns:s="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes"
4   targetNamespace="http://schemas.openxmlformats.org/officeDocument/2006/bibliography"
5   elementFormDefault="qualified">
6   <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes"
7     schemaLocation="shared-commonSimpleTypes.xsd"/>
8   <xsd:simpleType name="ST_SourceType">
9     <xsd:restriction base="s:ST_String">
10       <xsd:enumeration value="ArticleInAPeriodical"/>
11       <xsd:enumeration value="Book"/>
12       <xsd:enumeration value="BookSection"/>
13       <xsd:enumeration value="JournalArticle"/>
14       <xsd:enumeration value="ConferenceProceedings"/>
15       <xsd:enumeration value="Report"/>
16       <xsd:enumeration value="SoundRecording"/>
17       <xsd:enumeration value="Performance"/>
18       <xsd:enumeration value="Art"/>
19       <xsd:enumeration value="DocumentFromInternetSite"/>
20       <xsd:enumeration value="InternetSite"/>
21       <xsd:enumeration value="Film"/>
22       <xsd:enumeration value="Interview"/>
23       <xsd:enumeration value="Patent"/>
24       <xsd:enumeration value="ElectronicSource"/>
25       <xsd:enumeration value="Case"/>
26       <xsd:enumeration value="Misc"/>
27     </xsd:restriction>
28   </xsd:simpleType>
29   <xsd:complexType name="CT_NameListType">
30     <xsd:sequence>
31       <xsd:element name="Person" type="CT_PersonType" minOccurs="1" maxOccurs="unbounded"/>
32     </xsd:sequence>
33   </xsd:complexType>
34   <xsd:complexType name="CT_PersonType">
35     <xsd:sequence>
36       <xsd:element name="Last" type="s:ST_String" minOccurs="0" maxOccurs="unbounded"/>
37       <xsd:element name="First" type="s:ST_String" minOccurs="0" maxOccurs="unbounded"/>
38       <xsd:element name="Middle" type="s:ST_String" minOccurs="0" maxOccurs="unbounded"/>
39     </xsd:sequence>
40   </xsd:complexType>
41   <xsd:complexType name="CT_NameType">
42     <xsd:sequence>

```