

# INTERNATIONAL STANDARD

**ISO/IEC**  
**8632-4**

Second edition  
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**AMENDMENT 2**  
1995-08-01

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## **Information technology — Computer graphics — Metafile for the storage and transfer of picture description information —**

### **Part 4:**

Clear text encoding

### **AMENDMENT 2: Application structuring extensions**

*Technologies de l'information — Infographie — Métafichier de stockage et de  
transfert des informations de description d'images —*

*Partie 4: Codage en clair des textes*

*AMENDEMENT 2: Extensions de structure d'application*



Reference number  
ISO/IEC 8632-4:1992/Amd.2:1995(E)

## Foreword

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Amendment 2 to International Standard ISO/IEC 8632-4 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 24, *Computer graphics and image processing*.

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**Information technology - Computer graphics - Metafile for the storage and transfer of picture description information**

**Part 4:  
Clear text encoding**

**AMENDMENT 2: Application structuring extensions**

*Pages ii-iii*

*Add the following to Contents:*

6.10 Encoding application structure descriptor elements

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**5.4.4 Abbreviations**

Add the following abbreviations to Subclause 5.4.4, pages 13-14:

After "APPLICATION" add:

"APPLICATION STRUCTURE                      APS"

After "DEVICE" add:

"DIRECTORY                                      DIR"

**5.4.5 The derived element names**

Add the following to Subclause 5.4.5, pages 14-18:

After "END TILE ARRAY" add:

|                                  |            |
|----------------------------------|------------|
| "BEGIN APPLICATION STRUCTURE     | BEGAPS     |
| BEGIN APPLICATION STRUCTURE BODY | BEGAPSBODY |
| END APPLICATION STRUCTURE        | ENDAPS"    |

After "SYMBOL LIBRARY LIST" add:

"PICTURE DIRECTORY                      PICDIR"

After "GEOMETRIC PATTERN DEFINITION" add:

"APPLICATION STRUCTURE DIRECTORY      APSDIR"

After "SEGMENT PICK PRIORITY" add:

"APPLICATION STRUCTURE ATTRIBUTE      APSATTR"

**6.1 Encoding delimiter elements**

Add the following encodings at the end of list, page 20:

|                                  |                      |
|----------------------------------|----------------------|
| "BEGIN APPLICATION STRUCTURE     | ::= BEGAPS           |
|                                  | <SOFTSEP>            |
|                                  | <SF:APSID>           |
|                                  | <SEP>                |
|                                  | <SF:APSTYPE>         |
|                                  | <SEP>                |
|                                  | <STLIST APS>         |
|                                  | <TERM>               |
| BEGIN APPLICATION STRUCTURE BODY | ::= BEGAPSBODY<TERM> |
| END APPLICATION STRUCTURE        | ::= ENDAPS<TERM>"    |

## 6.2 Encoding metafile descriptor elements

Change the production of METAFILE VERSION, page 20, to read:

```
"METAFILE VERSION ::= MFVERSION
                        <SOFTSEP>
                        <I:VERSION>
                        { 1=Version 1, 2=Version 2,
                          3=Version 3, 4=Version 4 }
                        <TERM>"
```

Change the 2nd sentence of the paragraph following the production of METAFILE ELEMENT LIST, page 23, to read:

"In addition, the words DRAWINGPLUS, DRAWINGSET, VERSION2, EXTPRIM, VERSION2GKSM, VERSION3, and VERSION4 may be used in this string."

Add the following encodings and notes at the end of the list, page 27:

```
"PICTURE DIRECTORY ::= PICDIR
                        <SOFTSEP>
                        <UI8 | UI16 | UI32>
                        <<SEP><PICDIRTRIPLE>>+
                        <TERM>
```

```
PICDIRTRIPLE ::= <SF:PICID>
                <SEP>
                <I:PICLOCATION>
                <SEP>
                <I:APSDIRLOCATION>
```

### NOTES

7 The first (enumerated) parameter selects the location data type ([ldt]) for the subsequent PICLOCATION and APSDIRLOCATION parameters. These are integer-bound parameters, and the [ldt] selects one of three unsigned integer precisions. The values of PICLOCATION are the offsets measured in characters from the first character of the metafile to the first character of the associated BEGIN PICTURE element. The values of APSDIRLOCATION are the offsets measured in characters from the start of the metafile to the first character of the APPLICATION STRUCTURE DIRECTORY element of the associated picture. For the purpose of measuring offsets, a character is a generic unit as defined in Subclause 4.1. For string parameters, a character represents a single byte, regardless of the ISO 2022 coding environment in effect for the string parameter (See 4.7.3.2 ISO/IEC 8632-1:1992).

8 Editing of clear-text encoded Version 4 metafiles may invalidate PICLOCATION and APSDIRLOCATION values. If so, these values must be recomputed. Also, translation of clear text metafiles between computing environments may invalidate PICLOCATION and APSDIRLOCATION values as different environments represent line endings differently."

## 6.3 Encoding picture descriptor elements

Add the following encodings at the end of list, page 31:

```
"APPLICATION STRUCTURE DIRECTORY ::= APSDIR
                        <SOFTSEP>
                        <UI8 | UI16 | UI32>
                        <<SEP><APSDIRPAIR>>+
```