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AMENDMENT 1
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Information technology — Multimedia framework (MPEG-21) —

Part 2: Digital Item Declaration

AMENDMENT 1: Presentation of digital item

Technologies de l'information — Cadre multimédia (MPEG-21) —

Partie 2: Déclaration d'article numérique

AMENDEMENT 1: Présentation d'article numérique

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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
Web www.iso.org

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Foreword

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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.

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Amendment 1 to ISO/IEC 21000-2:2005 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.

Information technology — Multimedia framework (MPEG-21) —

Part 2:
Digital Item Declaration

AMENDMENT 1: Presentation of digital item

After 6.2.15, add the following subclause:

6.2.16 presentation

Defines a specific Descriptor named as presentation in the Digital Item Declaration Model. A presentation contains the presentation information. Typically it is a scene representation language that can describe the structured information. It can be the well-formed XML or just a pointer which points to a remote fragment containing the presentation information. The presentation information can reference the metadata from a Digital Item.

EXAMPLE It can reference the metadata from current Digital Item or a remote Digital Item using mpeg-pmsi() schema defined in ISO/IEC 14496-20:2008/Amd.3:2010.

NOTE It should be noticed that the information in the parent Item may be modified when it employs the mpeg-pmsi() mechanism.

After 7.2.20, add the following subclause:

7.2.21 <Presentation>

A **Presentation** is a kind of ***Descriptor***. It defines the presentation of an item that contains it. It is used as the extension of **Descriptor** element. For example, if an **Item** element contains a **Descriptor** element whose type is **Presentation**, the **Presentation** can present the structured information in this **Item**.

The ***precedence*** attribute of **Presentation** specifies whether one **Presentation** has precedence over others when the value of the ***precedence*** attribute is *true*, while if this attribute is missing or that its value is *false*, then it is up to the end-user application to display the preferred one. In this case the end application can choose an appropriate **Presentation** to present the Structured Information.

The **Presentation** uses the ***mimeType*** attribute of the **Resource element** to specify the data type of the **Presentation** as a concatenation of MIME media-type, sub-type, and parameters, as defined in IETF RFC 2045 and 2046.

EXAMPLE 1 If the **Presentation** is described as LASeR XML, the ***mimeType*** should be “application/x-laser+xml”; if the **Presentation** is described as SVG XML, the ***mimeType*** should be “image/svg+xml”. An **Item** element may contain one or more **Presentations** which can be described by LASeR XML, BIFS and so on.

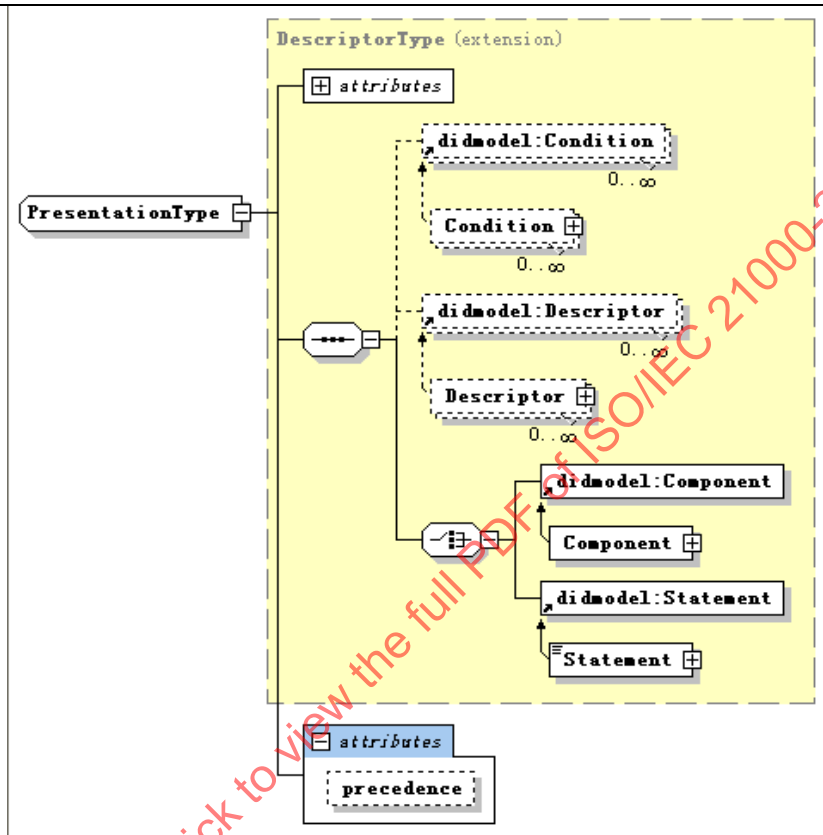
The **Presentation** may contain the presentation information inline as well-formed XML or just a pointer which points to a remote one. The ***ref*** attribute of the **Resource element** is used to identify whether it is a pointer or not. The URI value of the ***ref*** identifies the presentation information. It is a pointer that points to the remote presentation information; if the ***ref*** attribute is omitted, it means that the **Presentation** shall contain the presentation information inline as well-formed XML. For example, it can be a LASeR scene file.

The presentation information can reference the metadata from a remote one. The ***mpeg-pmsi()*** schema can be used to do this.

NOTE It should be noticed that the information in parent Item may be modified when employs mpeg-pmsi() mechanism.

The **Presentation** is the extension of the **Descriptor** element, and it provides the presentation information for the item element which contains it. The namespace of **Presentation** is `urn:mpeg:mpeg21:2010:02-DIDL-P-NS` and its prefix is `didl-p`.

Table AMD1.1 — The Presentation syntax

<table>
<tr><td>Diagram</td><td colspan="3"> 
</td></tr>
<tr><td>Children</td><td colspan="3"><Component> <Condition> <Descriptor> <Statement></td></tr>
<tr><td>Used by</td><td colspan="3"><Item></td></tr>
<tr><td rowspan="2">Attribute</td><td>Name</td><td>Type</td><td>Description</td></tr>
<tr><td>precedence</td><td>string</td><td>Specifies whether one Presentation has precedence over others.</td></tr>
<tr><td>Source</td><td colspan="3"><pre>
<complexType name="PresentationType">
  <complexContent>
    <extension base="didl:DescriptorType">
      <attribute name="precedence" type="string"/>
    </extension>
  </complexContent>
</complexType>
</pre></td></tr>
</table>