



INTERNATIONAL STANDARD ISO/IEC 23000-6:2009
TECHNICAL CORRIGENDUM 1

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Information technology — Multimedia application format (MPEG-A) —

Part 6: Professional archival application format

TECHNICAL CORRIGENDUM 1

Technologies de l'information — Format pour application multimédia (MPEG-A) —

Partie 6: Format pour application d'archivage professionnel

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to ISO/IEC 23000-6:2009 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.

In the following, changes in existing text and tables are highlighted in gray.

In Clause 2 Normative references, replace:

ISO 14721:2003, Space data and information transfer systems — Open archival information system — Reference mode

with:

ISO 14721:2003, Space data and information transfer systems — Open archival information system — Reference **model**

ICS 35.040

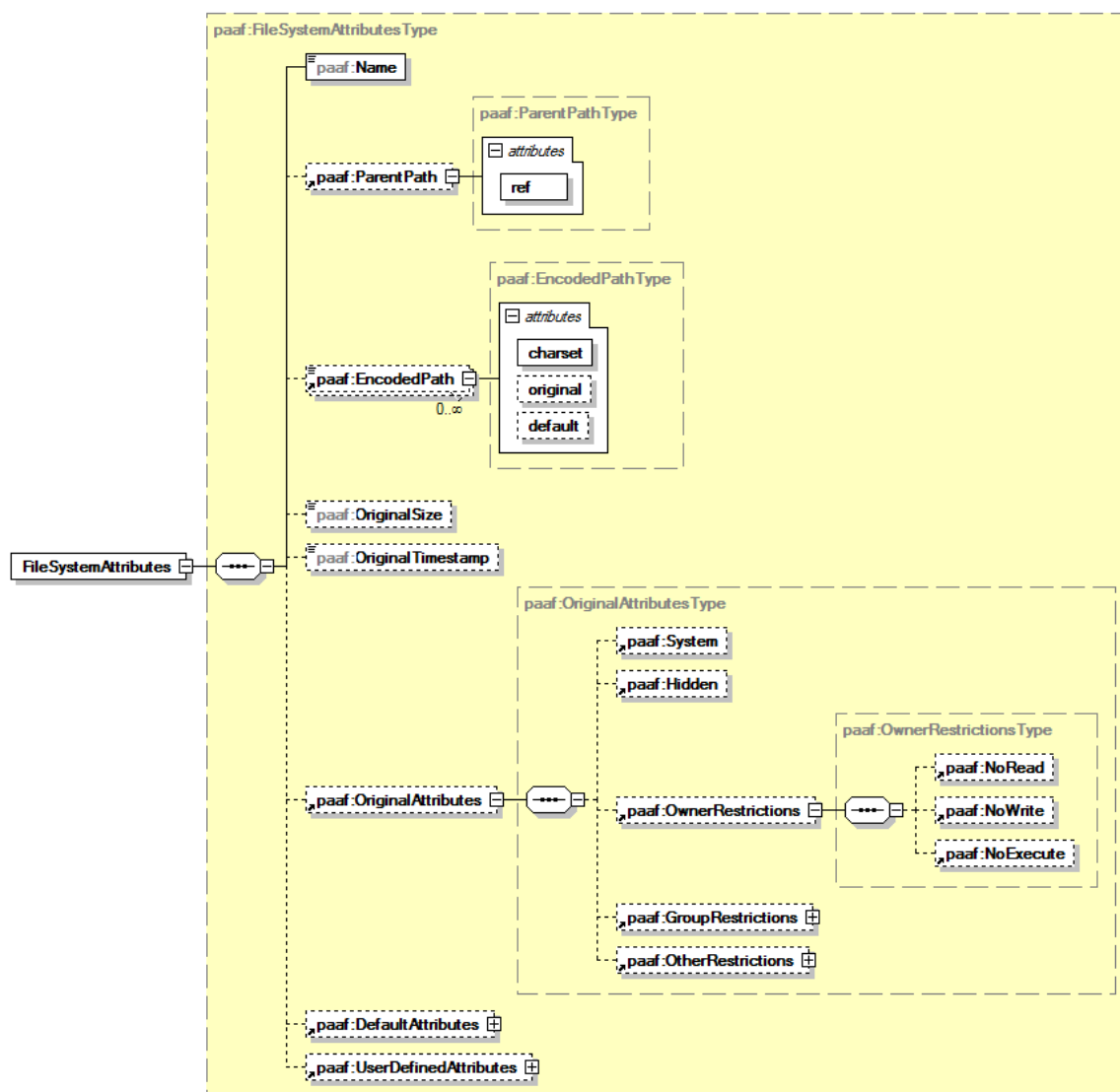
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In 6.3 File Attribute Model, replace Figure 6 with:



In 7.2 MPEG-7 Multimedia Description Scheme Profile for PA-AF, Table 5, replace “PA-AF MAF” with “PA-AF”.

In A.1 MPEG-21 DIDL 2nd Edition Profile for PA-AF Schema Definition, replace Table A.2 with:

Table A.2 — DIDL schema definition for PA-AF

```
<?xml version="1.0"?>
<schema targetNamespace="urn:mpeg:mpeg21:2002:02-DIDL-NS"
xmlns="http://www.w3.org/2001/XMLSchema"
xmlns:didl="urn:mpeg:mpeg21:2002:02-DIDL-NS"
xmlns:didmodel="urn:mpeg:mpeg21:2002:02-DIDMODEL-NS"
elementFormDefault="qualified" attributeFormDefault="unqualified" version="0.01">
  <!--=====
  Import abstract types representing DID model entities:
  =====>
  <import namespace="urn:mpeg:mpeg21:2002:02-DIDMODEL-NS"
schemaLocation="didmodelforPAAF.xsd"/>
```

```

<!--=====-->
<attributeGroup name="ID_ATTRS">
  <attribute name="id" type="ID" use="optional"/>
</attributeGroup>
<!--=====-->

```

Container element may contain any number of Container elements followed by any number of Items.

```

=====-->
<element name="Container" type="didl:ContainerType"
substitutionGroup="didmodel:Container"/>
<complexType name="ContainerType">
  <complexContent>
    <extension base="didmodel:ContainerType">
      <sequence>
        <element ref="didmodel:Descriptor" minOccurs="0"
maxOccurs="unbounded"/>
        <element ref="didmodel:Container" minOccurs="0"
maxOccurs="unbounded"/>
        <element ref="didmodel:Item" minOccurs="0" maxOccurs="unbounded"/>
      </sequence>
      <attributeGroup ref="didl:ID_ATTRS"/>
      <anyAttribute namespace="##other" processContents="lax"/>
    </extension>
  </complexContent>
</complexType>
<!--=====-->

```

Item element contains any number Choice elements, followed by at least one Item or Component element. An Item may be conditional.

```

=====-->
<element name="Item" type="didl:ItemType" substitutionGroup="didmodel:Item"/>
<complexType name="ItemType">
  <complexContent>
    <extension base="didmodel:ItemType">
      <sequence>
        <element ref="didmodel:Descriptor" minOccurs="0"
maxOccurs="unbounded"/>
        <element ref="didmodel:Component" maxOccurs="unbounded"/>
      </sequence>
      <attributeGroup ref="didl:ID_ATTRS"/>
    </extension>
  </complexContent>
</complexType>
<!--=====-->

```

A Descriptor contains descriptive data about its parent element.

The Descriptor may be resource-based (comprised of a single Component), or text-based (comprised of a single Statement). A Descriptor may be conditional.

```

=====-->
<element name="Descriptor" type="didl:DescriptorType"
substitutionGroup="didmodel:Descriptor"/>
<complexType name="DescriptorType">

```

```

<complexContent>
  <extension base="didmodel:DescriptorType">
    <sequence>
      <element ref="didmodel:Statement"/>
    </sequence>
    <attributeGroup ref="didl:ID_ATTRS"/>
  </extension>
</complexContent>
</complexType>
<!--=====

```

A Statement contains textual descriptive data within a Descriptor.

Attribs:

MimeType - A string identifying the type of metadata

```

=====-->
<element name="Statement" type="didl:StatementType"
substitutionGroup="didmodel:Statement"/>
<complexType name="StatementType" mixed="true">
  <complexContent mixed="true">
    <extension base="didmodel:StatementType">
      <sequence>
        <any namespace="##any" processContents="lax" minOccurs="0"/>
      </sequence>
      <attribute name="mimeType" type="string" use="required"/>
    </extension>
  </complexContent>
</complexType>
<!--=====

```

Component element contains one or more Resource elements, followed by any number of Anchor elements.

A Component may be conditional.

```

=====-->
<element name="Component" type="didl:ComponentType"
substitutionGroup="didmodel:Component"/>
<complexType name="ComponentType">
  <complexContent>
    <extension base="didmodel:ComponentType">
      <sequence>
        <element ref="didmodel:Resource"/>
      </sequence>
      <attributeGroup ref="didl:ID_ATTRS"/>
    </extension>
  </complexContent>
</complexType>
<!--=====

```

Resource element contains or points to binary data. The contained data may be binary or any valid XML element.

Attribs:

mimeType - An identifier of a recognized scheme indicating the type of the resource.

ref - A URI from which the resource data can be obtained

```

=====-->
<element name="Resource" type="didl:ResourceType"
substitutionGroup="didmodel:Resource"/>
<complexType name="ResourceType" mixed="true">
  <complexContent mixed="true">
    <extension base="didmodel:ResourceType">
      <attribute name="mimeType" type="string" use="required"/>
      <attribute name="ref" type="anyURI"/>
      <attribute name="contentEncoding" type="NMTOKENS"/>
    </extension>
  </complexContent>
</complexType>
<!-- elements from here onward are unique to the DIDL representation-->
<!--=====

```

DIDL element may contain exactly one Container

```

=====-->
<element name="DIDL" type="didl:DIDLType"/>
<complexType name="DIDLType">
  <sequence>
    <element ref="didmodel:Container"/>
  </sequence>
  <attribute name="DIDLDocumentId" type="anyURI"/>
</complexType>
</schema>

```

In A.2 File Attribute Model Schema Definition, replace Table A.3 with:

Table A.3 — File attribute model schema definition

```

<?xml version="1.0" encoding="UTF-8"?>
<schema targetNamespace="urn:mpeg:mpeg21:2007:01-PAAF-NS"
xmlns:pAAF="urn:mpeg:mpeg21:2007:01-PAAF-NS"
xmlns:mpeg7="urn:mpeg:mpeg7:schema:2001" xmlns="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified">
  <import namespace="urn:mpeg:mpeg7:schema:2001"
schemaLocation="Mpeg7MDSforPAAF.xsd"/>
  <element name="FileSystemAttributes" type="pAAF:FileSystemAttributesType"/>
  <complexType name="FileSystemAttributesType">
    <sequence>
      <element name="Name" type="string"/>
      <element ref="pAAF:ParentPath" minOccurs="0"/>
      <element ref="pAAF:EncodedPath" minOccurs="0" maxOccurs="unbounded"/>
      <element name="OriginalSize" type="unsignedLong" minOccurs="0"/>
      <element name="OriginalTimestamp" type="mpeg7:timePointType" minOccurs="0"/>
      <element ref="pAAF:OriginalAttributes" minOccurs="0"/>
      <element ref="pAAF:DefaultAttributes" minOccurs="0"/>
      <element ref="pAAF:UserDefinedAttributes" minOccurs="0"/>
      <!--Validation Rule: optional for directory but has to present for file-->
    </sequence>
  </complexType>
  <element name="NoRead" type="pAAF:NoReadType"/>
  <complexType name="NoReadType"/>
  <element name="NoWrite" type="pAAF:NoWriteType"/>
  <complexType name="NoWriteType"/>
  <element name="NoExecute" type="pAAF:NoExecuteType"/>
  <complexType name="NoExecuteType"/>

```

```

<element name="Hidden" type="paaf:HiddenType"/>
<complexType name="HiddenType"/>
<element name="System" type="paaf:SystemType"/>
<complexType name="SystemType"/>
<element name="EncodedPath" type="paaf:EncodedPathType"/>
<complexType name="EncodedPathType" mixed="true">
  <simpleContent>
    <extension base="base64Binary">
      <attribute name="charset" type="string" use="required"/>
      <attribute name="original" type="boolean" use="optional"/>
      <attribute name="default" type="boolean" use="optional"/>
    </extension>
  </simpleContent>
</complexType>
<element name="OwnerRestrictions" type="paaf:OwnerRestrictionsType"/>
<complexType name="OwnerRestrictionsType">
  <sequence>
    <element ref="paaf:NoRead" minOccurs="0"/>
    <element ref="paaf:NoWrite" minOccurs="0"/>
    <element ref="paaf:NoExecute" minOccurs="0"/>
  </sequence>
</complexType>
<element name="GroupRestrictions" type="paaf:GroupRestrictionsType"/>
<complexType name="GroupRestrictionsType">
  <sequence>
    <element ref="paaf:NoRead" minOccurs="0"/>
    <element ref="paaf:NoWrite" minOccurs="0"/>
    <element ref="paaf:NoExecute" minOccurs="0"/>
  </sequence>
</complexType>
<element name="OtherRestrictions" type="paaf:OtherRestrictionsType"/>
<complexType name="OtherRestrictionsType">
  <sequence>
    <element ref="paaf:NoRead" minOccurs="0"/>
    <element ref="paaf:NoWrite" minOccurs="0"/>
    <element ref="paaf:NoExecute" minOccurs="0"/>
  </sequence>
</complexType>
<element name="OriginalAttributes" type="paaf:OriginalAttributesType"/>
<complexType name="OriginalAttributesType">
  <sequence>
    <element ref="paaf:System" minOccurs="0"/>
    <element ref="paaf:Hidden" minOccurs="0"/>
    <element ref="paaf:OwnerRestrictions" minOccurs="0"/>
    <element ref="paaf:GroupRestrictions" minOccurs="0"/>
    <element ref="paaf:OtherRestrictions" minOccurs="0"/>
  </sequence>
</complexType>
<element name="DefaultAttributes" type="paaf:DefaultAttributesType"/>
<complexType name="DefaultAttributesType">
  <sequence>
    <element ref="paaf:System" minOccurs="0"/>
    <element ref="paaf:Hidden" minOccurs="0"/>
    <element ref="paaf:OwnerRestrictions" minOccurs="0"/>
    <element ref="paaf:GroupRestrictions" minOccurs="0"/>
    <element ref="paaf:OtherRestrictions" minOccurs="0"/>
  </sequence>
</complexType>
<element name="ParentPath" type="paaf:ParentPathType"/>
<complexType name="ParentPathType">

```