
**Information technology — Multimedia
framework (MPEG-21) —**

Part 4:

**Intellectual Property Management and
Protection Components**

AMENDMENT 2: Protection of presentation
element

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

*Partie 4. Composants de gestion et de protection de propriété
intellectuelle*

AMENDEMENT 2: Protection de l'élément de présentation

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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 2 to ISO/IEC 21000-4:2006 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.

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Information technology — Multimedia framework (MPEG-21) —

Part 4: Intellectual Property Management and Protection Components

AMENDMENT 2: Protection of presentation element

After 6.2.13, add the following subclause:

6.2.14 ipmpdidl:Presentation

6.2.14.1 Syntax

Diagram	
Children	<Identifier> <Info> <ContentInfo> <Contents>
Source	<pre> <element name="Presentation" type="ipmpdidl:PresentationType" substitutionGroup="didl:Descriptor"/> <complexType name="PresentationType"> <complexContent> <extension base="didl-p:PresentationType"> </extension> </complexContent> </complexType> </pre>

6.2.14.2 Semantics

The ipmpdidl:Presentation element is defined to provide for the communication of IPMP governance on a specific Presentation originally represented in DIDL.

Replace Annex A with:

Annex A (informative)

IPMP DIDL Schema

```

<?xml version="1.0"?>
<!--====Schema for IPMP DIDL Types====-->
<!--====-->
<schema xmlns="http://www.w3.org/2001/XMLSchema" xmlns:didmodel="urn:mpeg:mpeg21:2002:02-DIDMODEL-NS"
xmlns:ipmpdidl="urn:mpeg:mpeg21:2004:01-IPMPDIDL-NS" xmlns:ns1="urn:mpeg:mpeg21:2002:02-DIDL-NS"
targetNamespace="urn:mpeg:mpeg21:2004:01-IPMPDIDL-NS" elementFormDefault="qualified"
attributeFormDefault="unqualified" version="0.01">
  <import namespace="urn:mpeg:mpeg21:2002:02-DIDMODEL-NS" schemaLocation="didmodel.xsd"/>
  <import namespace="urn:mpeg:mpeg21:2002:02-DIDL-NS" schemaLocation="didl.xsd"/>
  <import namespace="urn:mpeg:mpeg21:2010:02-DIDL-P-NS" schemaLocation="didl-p.xsd"/>
  <!--====-->
  All element types corresponding to the DID model contain:
  (i) a maximum of one ipmpdidl:Identifier element, into which an appropriate identifier
  for the protected Representation may be placed
  (ii) one ipmpdidl:Info element, into which information about the governance is placed
  (iii) one ipmpdidl:Contents element, into which the governed Contents is placed
  <!--====-->
  <element name="Container" type="ipmpdidl:ContainerType" substitutionGroup="didmodel:Container"/>
  <complexType name="ContainerType">
    <complexContent>
      <extension base="didmodel:ContainerType"/>
    </complexContent>
  </complexType>
  <element name="Item" type="ipmpdidl:ItemType" substitutionGroup="didmodel:Item"/>
  <complexType name="ItemType">
    <complexContent>
      <extension base="didmodel:ItemType"/>
    </complexContent>
  </complexType>
  <element name="Descriptor" type="ipmpdidl:DescriptorType"
substitutionGroup="didmodel:Descriptor"/>
  <complexType name="DescriptorType">
    <complexContent>
      <extension base="didmodel:DescriptorType"/>
    </complexContent>
  </complexType>
  <element name="Statement" type="ipmpdidl:StatementType" substitutionGroup="didmodel:Statement"/>
  <complexType name="StatementType" mixed="true">
    <complexContent mixed="true">
      <extension base="didmodel:StatementType"/>
    </complexContent>
  </complexType>
  <element name="Component" type="ipmpdidl:ComponentType" substitutionGroup="didmodel:Component"/>
  <complexType name="ComponentType">
    <complexContent>
      <extension base="didmodel:ComponentType"/>
    </complexContent>
  </complexType>
  <element name="Anchor" type="ipmpdidl:AnchorType" substitutionGroup="didmodel:Anchor"/>
  <complexType name="AnchorType">
    <complexContent>
      <extension base="didmodel:AnchorType"/>
    </complexContent>
  </complexType>
  <element name="Fragment" type="ipmpdidl:FragmentType" substitutionGroup="didmodel:Fragment"/>
  <complexType name="FragmentType" mixed="true">
    <complexContent mixed="true">
      <extension base="didmodel:FragmentType">
        <sequence>
          <group ref="ipmpdidl:IPMPDIDLChildGroup"/>
        </sequence>
        <attribute name="fragmentId" type="string"/>
      </extension>
    </complexContent>
  </complexType>

```

```

</complexType>
<element name="Condition" type="ipmpdidl:ConditionType" substitutionGroup="didmodel:Condition"/>
<complexType name="ConditionType">
  <complexContent>
    <extension base="didmodel:ConditionType"/>
  </complexContent>
</complexType>
<element name="Choice" type="ipmpdidl:ChoiceType" substitutionGroup="didmodel:Choice"/>
<complexType name="ChoiceType">
  <complexContent>
    <extension base="didmodel:ChoiceType"/>
  </complexContent>
</complexType>
<element name="Selection" type="ipmpdidl:SelectionType" substitutionGroup="didmodel:Selection"/>
<complexType name="SelectionType">
  <complexContent>
    <extension base="didmodel:SelectionType"/>
  </complexContent>
</complexType>
<element name="Resource" type="ipmpdidl:ResourceType" substitutionGroup="didmodel:Resource"/>
<complexType name="ResourceType" mixed="true">
  <complexContent mixed="true">
    <extension base="didmodel:ResourceType"/>
  </complexContent>
</complexType>
<element name="Annotation" type="ipmpdidl:AnnotationType"
substitutionGroup="didmodel:Annotation"/>
<complexType name="AnnotationType">
  <complexContent>
    <extension base="didmodel:AnnotationType"/>
  </complexContent>
</complexType>
<element name="Assertion" type="ipmpdidl:AssertionType" substitutionGroup="didmodel:Assertion"/>
<complexType name="AssertionType">
  <complexContent>
    <extension base="didmodel:AssertionType"/>
  </complexContent>
</complexType>
<element name="Presentation" type="ipmpdidl:PresentationType"
substitutionGroup="didl:Descriptor"/>
<complexType name="PresentationType">
  <complexContent>
    <extension base="didl-p:PresentationType"/>
  </extension>
</complexContent>
</complexType>
<!-- elements from here onward are unique to the IPMP DIDL Representation-->
<group name="IPMPDIDLChildGroup">
  <sequence>
    <element ref="ipmpdidl:Identifier" minOccurs="0"/>
    <element ref="ipmpdidl:Info"/>
    <element ref="ipmpdidl:ContentInfo" minOccurs="0"/>
    <element ref="ipmpdidl:Contents"/>
  </sequence>
</group>
<element name="Contents">
  <complexType mixed="true">
    <sequence>
      <any namespace="##any" processContents="lax" minOccurs="0"/>
    </sequence>
    <attribute name="ref" type="anyURI"/>
  </complexType>
</element>
<element name="Info">
  <complexType mixed="true">
    <sequence>
      <any namespace="##any" processContents="lax" minOccurs="0"/>
    </sequence>
  </complexType>
</element>
<element name="Identifier">
  <complexType mixed="true">
    <sequence>
      <any namespace="##any" processContents="lax" minOccurs="0"/>
    </sequence>
  </complexType>

```

```
</element>
<element name="ContentInfo">
  <complexType mixed="true">
    <sequence>
      <any namespace="##any" processContents="lax" minOccurs="0"/>
    </sequence>
  </complexType>
</element>
<element name="ProtectedAsset" type="ipmpdidl:ProtectedAssetType"/>
<complexType name="ProtectedAssetType">
  <sequence>
    <group ref="ipmpdidl:IPMPDIDLChildGroup"/>
  </sequence>
  <attribute name="mimeType" type="string" use="required"/>
</complexType>
</schema>
```

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