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**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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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

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