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AMENDMENT 1
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**Information technology — Multimedia
content description interface —**

**Part 11:
MPEG-7 profile schemas**

**AMENDMENT 1: Audiovisual description
profile (AVDP) schema**

*Technologies de l'information — Interface de description du contenu
multimédia —*

Partie 11: Schémas du profil MPEG-7

*AMENDEMENT 1: Schéma du profil de description audiovisuelle
(ADVP)*

STANDARDSISO.COM : Click to view the full PDF of ISO/IEC TR 15938-11:2005/Amd 1:2012

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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.

In exceptional circumstances, when the joint technical committee has collected data of a different kind from that which is normally published as an International Standard ("state of the art" for example), it may decide to publish a Technical Report. A Technical Report is entirely informative in nature and shall be subject to review every five years in the same manner as an International Standard.

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Amendment 1 to ISO/IEC TR 15938-11:2005 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 content description interface —

Part 11: MPEG-7 profile schemas

AMENDMENT 1: Audiovisual description profile (AVDP) schema

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After 3.4, add the following subclause:

3.5 AVDP Profile Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- #####
      MPEG-7 Audiovisual Description Profile (AVDP)
      based on MPEG-7 Version 2
      ##### -->

<schema xmlns="http://www.w3.org/2001/XMLSchema" xmlns:mpeg7="urn:mpeg:mpeg7:schema:2004"
xmlns:xml="http://www.w3.org/XML/1998/namespace"
targetNamespace="urn:mpeg:mpeg7:schema:2004" elementFormDefault="qualified"
attributeFormDefault="unqualified">
  <annotation>
    <documentation>
      The following schema definition corresponds to the description tools of:
        ISO/IEC 15938-1 + ISO/IEC 15938-1 COR/1 /1 + ISO/IEC 15938-1 AMD/1 (Systems)
        ISO/IEC 15938-2 (DDL)
        ISO/IEC 15938-3 + ISO/IEC 15938-3 COR/1 + ISO/IEC 15938-3 AMD/1 (Visual)
        ISO/IEC 15938-4 + ISO/IEC 15938-4 AMD/1 (Audio)
        ISO/IEC 15938-5 + ISO/IEC 15938-5 COR/1 + ISO/IEC 15938-5 AMD/1 + ISO/IEC
15938-5 AMD/2 (MDS)
    </documentation>
  </annotation>
  <!-- ##### -->
  <!-- import xml components -->
  <!-- ##### -->
  <import namespace="http://www.w3.org/XML/1998/namespace"
schemaLocation="http://www.w3.org/2001/03/xml.xsd"/>
  <annotation>
    <documentation>
      This document contains tools defined as MPEG-7 specific extention of
      XML Schema in ISO/IEC 15938-2
    </documentation>
  </annotation>
  <!-- *****-->
  <!-- ***** ISO/IEC 15938-2 DDL *****-->
```

```

<!-- *****-->
<annotation>
  <documentation>
    The following section contains tools defined in ISO/IEC 15938-2
  </documentation>
</annotation>
<!-- ##### -->
<!-- Definition of 'mpeg7:dim' for Matrix Datatype -->
<!-- ##### -->
<!-- definition of listOfPositiveIntegerForDim datatype -->
<simpleType name="listOfPositiveIntegerForDim">
  <list itemType="positiveInteger"/>
</simpleType>
<!-- definition of mpeg7:dim attribute -->
<attribute name="dim">
  <simpleType>
    <restriction base="mpeg7:listOfPositiveIntegerForDim">
      <minLength value="1"/>
    </restriction>
  </simpleType>
</attribute>
<!-- ##### -->
<!-- Definition of MPEG-7 Datatype Extensions -->
<!-- ##### -->
<!-- definition of basicTimePoint datatype -->
<simpleType name="basicTimePointType">
  <restriction base="string">
    <pattern value="\-?(\d+(\-\d{2}(\-\d{2})?)?(T\d{2}(:\d{2}(:\d{2}(:\d+(\.\d{2})?)?)?)?(F\d+)((\-\|+)\d{2}:\d{2})?)?"/>
  </restriction>
</simpleType>
<!-- definition of basicDuration datatype -->
<simpleType name="basicDurationType">
  <restriction base="string">
    <pattern value="\-?P(\d+P)?(T(\d+H)?(\d+M)?(\d+S)?(\d+N)?(\d{2}f)?)?(\d+F)?((\-\|+)\d{2}:\d{2}Z)?"/>
  </restriction>
</simpleType>
<!-- *****-->
<!-- ***** ISO/IEC 15938-3 Visual *****-->
<!-- *****-->
<annotation>
  <documentation>
    The following section contains visual tools defined in:
    ISO/IEC 15938-3 + ISO/IEC 15938-3 AMD/1 (Visual)
  </documentation>
</annotation>
<!-- ##### -->
<!-- Definition of GridLayout Datatype -->
<!-- ##### -->
<complexType name="GridLayoutType" final="#all">
  <sequence>
    <element name="Descriptor" type="mpeg7:VisualDType" maxOccurs="65025"/>
  </sequence>
  <attribute name="numOfPartX" type="mpeg7:unsigned8" use="required"/>
  <attribute name="numOfPartY" type="mpeg7:unsigned8" use="required"/>
  <attribute name="descriptorMask" use="optional">
    <simpleType>
      <restriction base="string">
        <pattern value="(0|1)*"/>
      </restriction>
    </simpleType>
  </attribute>
</complexType>

```

```

        </restriction>
    </simpleType>
</attribute>
</complexType>
<!-- ##### -->
<!-- Definition of VisualTimeSeries Datatypes -->
<!-- ##### -->
<!-- Definition of VisualTimeSeries Datatype -->
<complexType name="VisualTimeSeriesType" abstract="true">
    <sequence>
        <element name="TimeIncr" type="mpeg7:mediaDurationType"/>
    </sequence>
    <attribute name="offset" type="mpeg7:mediaDurationType" use="optional"
default="PT0S"/>
</complexType>
<!-- Definition of RegularVisualTimeSeries Datatype -->
<complexType name="RegularVisualTimeSeriesType" final="#all">
    <complexContent>
        <extension base="mpeg7:VisualTimeSeriesType">
            <sequence>
                <element name="Descriptor" type="mpeg7:VisualDType"
maxOccurs="unbounded"/>
            </sequence>
        </extension>
    </complexContent>
</complexType>
<!-- Definition of IrregularVisualTimeSeries Datatype -->
<complexType name="IrregularVisualTimeSeriesType" final="#all">
    <complexContent>
        <extension base="mpeg7:VisualTimeSeriesType">
            <sequence maxOccurs="unbounded">
                <element name="Descriptor" type="mpeg7:VisualDType"/>
                <element name="Interval" type="mpeg7:unsigned32"/>
            </sequence>
        </extension>
    </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of Spatial2DCoordinateSystem Header -->
<!-- ##### -->
<complexType name="Spatial2DCoordinateSystemType" final="#all">
    <complexContent>
        <extension base="mpeg7:HeaderType">
            <sequence>
                <element name="Unit" minOccurs="0">
                    <simpleType>
                        <restriction base="string">
                            <enumeration value="pixel"/>
                            <enumeration value="meter"/>
                            <enumeration value="pictureHeight"/>
                            <enumeration value="pictureWidth"/>
                            <enumeration value="pictureWidthAndHeight"/>
                        </restriction>
                    </simpleType>
                </element>
                <element name="LocalCoordinateSystem" minOccurs="0">
                    <complexType>
                        <sequence>
                            <choice>
                                <sequence maxOccurs="3">

```

```

        <element name="Pixel">
            <simpleType>
                <restriction base="mpeg7:integerVector">
                    <length value="2"/>
                </restriction>
            </simpleType>
        </element>
        <element name="CoordPoint">
            <simpleType>
                <restriction base="mpeg7:floatVector">
                    <length value="2"/>
                </restriction>
            </simpleType>
        </element>
    </sequence>
    <sequence maxOccurs="3">
        <element name="CurrPixel">
            <simpleType>
                <restriction base="mpeg7:integerVector">
                    <length value="2"/>
                </restriction>
            </simpleType>
        </element>
        <element name="SrcPixel">
            <simpleType>
                <restriction base="mpeg7:integerVector">
                    <length value="2"/>
                </restriction>
            </simpleType>
        </element>
    </sequence>
</choice>
    <element name="MappingFunc" type="string" minOccurs="0"
maxOccurs="2"/>
</sequence>
    <attribute name="name" type="string" use="required"/>
    <attribute name="dataSet" type="anyURI" use="optional"/>
</complexType>
</element>
<element name="IntegratedCoordinateSystem" minOccurs="0">
    <complexType>
        <sequence minOccurs="0" maxOccurs="65535">
            <element name="TimeIncr"
type="mpeg7:MediaIncrDurationType"/>
            <element name="MotionParams" type="float" minOccurs="2"
maxOccurs="12"/>
        </sequence>
        <attribute name="modelType" use="required">
            <simpleType>
                <restriction base="string">
                    <enumeration value="translational"/>
                    <enumeration value="rotationAndScaling"/>
                    <enumeration value="affine"/>
                    <enumeration value="perspective"/>
                    <enumeration value="quadratic"/>
                </restriction>
            </simpleType>
        </attribute>
        <attribute name="xOrigin" type="float" use="required"/>
        <attribute name="yOrigin" type="float" use="required"/>
    </complexType>
</element>

```



```

        </complexType>
      </element>
    </sequence>
    <attribute name="xRepr" type="mpeg7:unsigned8" use="required"/>
    <attribute name="yRepr" type="mpeg7:unsigned8" use="required"/>
    <attribute name="xSrcSize" type="positiveInteger" use="optional"/>
    <attribute name="ySrcSize" type="positiveInteger" use="optional"/>
  </extension>
</complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of TemporalInterpolation Datatype -->
<!-- ##### -->
<complexType name="TemporalInterpolationType" final="#all">
  <sequence>
    <choice>
      <element name="WholeInterval">
        <complexType>
          <sequence>
            <element name="MediaIncrDuration"
type="mpeg7:MediaIncrDurationType"/>
          </sequence>
        </complexType>
      </element>
      <element name="KeyTimePoint">
        <complexType>
          <sequence>
            <element name="MediaRelIncrTimePoint"
type="mpeg7:MediaRelIncrTimePointType" minOccurs="2" maxOccurs="65535"/>
          </sequence>
        </complexType>
      </element>
    </choice>
    <element name="InterpolationFunctions" maxOccurs="15">
      <complexType>
        <sequence>
          <element name="KeyValue" minOccurs="2" maxOccurs="65535">
            <complexType>
              <simpleContent>
                <extension base="float">
                  <attribute name="type" use="optional"
default="firstOrder">
                    <simpleType>
                      <restriction base="string">
                        <enumeration value="startPoint"/>
                        <enumeration value="firstOrder"/>
                        <enumeration value="secondOrder"/>
                        <enumeration value="notDetermined"/>
                      </restriction>
                    </simpleType>
                  </attribute>
                  <attribute name="param" type="float" use="optional"
default="0.0"/>
                </extension>
              </simpleContent>
            </complexType>
          </element>
        </sequence>
      </complexType>
    </element>
  </sequence>
</complexType>
</element>

```

```

    </sequence>
</complexType>
<!-- ##### -->
<!-- Definition of ColorSpace Datatype -->
<!-- ##### -->
<complexType name="ColorSpaceType" final="#all">
    <sequence>
        <element name="ColorTransMat" minOccurs="0">
            <simpleType>
                <restriction>
                    <simpleType>
                        <list itemType="mpeg7:unsigned16"/>
                    </simpleType>
                    <length value="9"/>
                </restriction>
            </simpleType>
        </element>
    </sequence>
    <attribute name="colorReferenceFlag" type="boolean" use="optional"
default="false"/>
    <attribute name="type" use="required">
        <simpleType>
            <restriction base="string">
                <enumeration value="RGB"/>
                <enumeration value="YCbCr"/>
                <enumeration value="HSV"/>
                <enumeration value="HMMD"/>
                <enumeration value="LinearMatrix"/>
                <enumeration value="Monochrome"/>
            </restriction>
        </simpleType>
    </attribute>
</complexType>
<!-- ##### -->
<!-- Definition of ColorQuantization Datatype -->
<!-- ##### -->
<complexType name="ColorQuantizationType" final="#all">
    <sequence maxOccurs="3">
        <element name="Component">
            <simpleType>
                <restriction base="string">
                    <enumeration value="R"/>
                    <enumeration value="G"/>
                    <enumeration value="B"/>
                    <enumeration value="Y"/>
                    <enumeration value="Cb"/>
                    <enumeration value="Cr"/>
                    <enumeration value="H"/>
                    <enumeration value="S"/>
                    <enumeration value="V"/>
                    <enumeration value="Max"/>
                    <enumeration value="Min"/>
                    <enumeration value="Diff"/>
                    <enumeration value="Sum"/>
                </restriction>
            </simpleType>
        </element>
        <element name="NumOfBins" type="mpeg7:unsigned12"/>
    </sequence>
</complexType>

```

```

<!-- ##### -->
<!-- Definition of DominantColor D
-->
<!-- ##### -->
<complexType name="DominantColorType" final="#all">
  <complexContent>
    <extension base="mpeg7:VisualDType">
      <sequence>
        <element name="ColorSpace" type="mpeg7:ColorSpaceType" minOccurs="0"/>
        <element name="ColorQuantization" type="mpeg7:ColorQuantizationType"
minOccurs="0"/>
        <element name="SpatialCoherency" type="mpeg7:unsigned5"/>
        <element name="Value" maxOccurs="8">
          <complexType>
            <sequence>
              <element name="Percentage" type="mpeg7:unsigned5"/>
              <element name="Index">
                <simpleType>
                  <restriction>
                    <simpleType>
                      <list itemType="mpeg7:unsigned12"/>
                    </simpleType>
                    <length value="3"/>
                  </restriction>
                </simpleType>
              </element>
              <element name="ColorVariance" minOccurs="0">
                <simpleType>
                  <restriction>
                    <simpleType>
                      <list itemType="mpeg7:unsigned1"/>
                    </simpleType>
                    <length value="3"/>
                  </restriction>
                </simpleType>
              </element>
            </sequence>
          </complexType>
        </element>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of ScalableColor D
-->
<!-- ##### -->
<complexType name="ScalableColorType" final="#all">
  <complexContent>
    <extension base="mpeg7:VisualDType">
      <sequence>
        <element name="Coeff" type="mpeg7:integerVector"/>
      </sequence>
      <attribute name="numOfCoeff" use="required">
        <simpleType>
          <restriction base="integer">
            <enumeration value="16"/>
            <enumeration value="32"/>
            <enumeration value="64"/>
            <enumeration value="128"/>
          </restriction>
        </simpleType>
      </attribute>
    </extension>
  </complexContent>
</complexType>

```

```

        <enumeration value="256"/>
      </restriction>
    </simpleType>
  </attribute>
  <attribute name="numOfBitplanesDiscarded" use="required">
    <simpleType>
      <restriction base="integer">
        <enumeration value="0"/>
        <enumeration value="1"/>
        <enumeration value="2"/>
        <enumeration value="3"/>
        <enumeration value="4"/>
        <enumeration value="6"/>
        <enumeration value="8"/>
      </restriction>
    </simpleType>
  </attribute>
</extension>
</complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of ColorLayout D
-->
<!-- ##### -->
<complexType name="ColorLayoutType" final="#all">
  <complexContent>
    <extension base="mpeg7:VisualDType">
      <sequence>
        <element name="YDCCoeff" type="mpeg7:unsigned6"/>
        <element name="CbDCCoeff" type="mpeg7:unsigned6"/>
        <element name="CrDCCoeff" type="mpeg7:unsigned6"/>
        <choice>
          <element name="YACCoeff2">
            <simpleType>
              <restriction>
                <simpleType>
                  <list itemType="mpeg7:unsigned5"/>
                </simpleType>
                <length value="2"/>
              </restriction>
            </simpleType>
          </element>
          <element name="YACCoeff5">
            <simpleType>
              <restriction>
                <simpleType>
                  <list itemType="mpeg7:unsigned5"/>
                </simpleType>
                <length value="5"/>
              </restriction>
            </simpleType>
          </element>
          <element name="YACCoeff9">
            <simpleType>
              <restriction>
                <simpleType>
                  <list itemType="mpeg7:unsigned5"/>
                </simpleType>
                <length value="9"/>
              </restriction>
            </simpleType>
          </element>
        </choice>
      </sequence>
    </extension>
  </complexContent>
</complexType>

```

```

        </simpleType>
      </element>
      <element name="YACCCoeff14">
        <simpleType>
          <restriction>
            <simpleType>
              <list itemType="mpeg7:unsigned5"/>
            </simpleType>
            <length value="14"/>
          </restriction>
        </simpleType>
      </element>
      <element name="YACCCoeff20">
        <simpleType>
          <restriction>
            <simpleType>
              <list itemType="mpeg7:unsigned5"/>
            </simpleType>
            <length value="20"/>
          </restriction>
        </simpleType>
      </element>
      <element name="YACCCoeff27">
        <simpleType>
          <restriction>
            <simpleType>
              <list itemType="mpeg7:unsigned5"/>
            </simpleType>
            <length value="27"/>
          </restriction>
        </simpleType>
      </element>
      <element name="YACCCoeff63">
        <simpleType>
          <restriction>
            <simpleType>
              <list itemType="mpeg7:unsigned5"/>
            </simpleType>
            <length value="63"/>
          </restriction>
        </simpleType>
      </element>
    </choice>
    <choice>
      <sequence>
        <element name="CbACCoeff2">
          <simpleType>
            <restriction>
              <simpleType>
                <list itemType="mpeg7:unsigned5"/>
              </simpleType>
              <length value="2"/>
            </restriction>
          </simpleType>
        </element>
        <element name="CrACCoeff2">
          <simpleType>
            <restriction>
              <simpleType>
                <list itemType="mpeg7:unsigned5"/>
              </simpleType>
            </restriction>
          </simpleType>
        </element>
      </sequence>
    </choice>
  </sequence>
</element>

```

```

        </simpleType>
        <length value="2"/>
    </restriction>
</simpleType>
</element>
</sequence>
<sequence>
    <element name="CbACCoeff5">
        <simpleType>
            <restriction>
                <simpleType>
                    <list itemType="mpeg7:unsigned5"/>
                </simpleType>
                <length value="5"/>
            </restriction>
        </simpleType>
    </element>
    <element name="CrACCoeff5">
        <simpleType>
            <restriction>
                <simpleType>
                    <list itemType="mpeg7:unsigned5"/>
                </simpleType>
                <length value="5"/>
            </restriction>
        </simpleType>
    </element>
</sequence>
<sequence>
    <element name="CbACCoeff9">
        <simpleType>
            <restriction>
                <simpleType>
                    <list itemType="mpeg7:unsigned5"/>
                </simpleType>
                <length value="9"/>
            </restriction>
        </simpleType>
    </element>
    <element name="CrACCoeff9">
        <simpleType>
            <restriction>
                <simpleType>
                    <list itemType="mpeg7:unsigned5"/>
                </simpleType>
                <length value="9"/>
            </restriction>
        </simpleType>
    </element>
</sequence>
<sequence>
    <element name="CbACCoeff14">
        <simpleType>
            <restriction>
                <simpleType>
                    <list itemType="mpeg7:unsigned5"/>
                </simpleType>
                <length value="14"/>
            </restriction>
        </simpleType>
    </element>

```

```

    </element>
    <element name="CrACCoeff14">
      <simpleType>
        <restriction>
          <simpleType>
            <list itemType="mpeg7:unsigned5"/>
          </simpleType>
          <length value="14"/>
        </restriction>
      </simpleType>
    </element>
  </sequence>
  <sequence>
    <element name="CbACCoeff20">
      <simpleType>
        <restriction>
          <simpleType>
            <list itemType="mpeg7:unsigned5"/>
          </simpleType>
          <length value="20"/>
        </restriction>
      </simpleType>
    </element>
    <element name="CrACCoeff20">
      <simpleType>
        <restriction>
          <simpleType>
            <list itemType="mpeg7:unsigned5"/>
          </simpleType>
          <length value="20"/>
        </restriction>
      </simpleType>
    </element>
  </sequence>
  <sequence>
    <element name="CbACCoeff27">
      <simpleType>
        <restriction>
          <simpleType>
            <list itemType="mpeg7:unsigned5"/>
          </simpleType>
          <length value="27"/>
        </restriction>
      </simpleType>
    </element>
    <element name="CrACCoeff27">
      <simpleType>
        <restriction>
          <simpleType>
            <list itemType="mpeg7:unsigned5"/>
          </simpleType>
          <length value="27"/>
        </restriction>
      </simpleType>
    </element>
  </sequence>
  <sequence>
    <element name="CbACCoeff63">
      <simpleType>
        <restriction>

```

```

        <simpleType>
            <list itemType="mpeg7:unsigned5"/>
        </simpleType>
        <length value="63"/>
    </restriction>
</simpleType>
</element>
<element name="CrACCoeff63">
    <simpleType>
        <restriction>
            <simpleType>
                <list itemType="mpeg7:unsigned5"/>
            </simpleType>
            <length value="63"/>
        </restriction>
    </simpleType>
</element>
</sequence>
</choice>
</sequence>
</extension>
</complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of ColorStructure D
-->
<!-- ##### -->
<complexType name="ColorStructureType" final="#all">
    <complexContent>
        <extension base="mpeg7:VisualDType">
            <sequence>
                <element name="Values">
                    <simpleType>
                        <restriction>
                            <simpleType>
                                <list itemType="mpeg7:unsigned8"/>
                            </simpleType>
                            <minLength value="1"/>
                            <maxLength value="256"/>
                        </restriction>
                    </simpleType>
                </element>
            </sequence>
            <attribute name="colorQuant" type="mpeg7:unsigned3" use="required"/>
        </extension>
    </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of GoFGoPColor D
-->
>
<!-- ##### -->
<complexType name="GoFGoPColorType" final="#all">
    <complexContent>
        <extension base="mpeg7:VisualDType">
            <sequence>
                <element name="ScalableColor" type="mpeg7:ScalableColorType"/>
            </sequence>
            <attribute name="aggregation" use="required">
                <simpleType>
                    <restriction base="string">

```



```

        <enumeration value="Average"/>
        <enumeration value="Median"/>
        <enumeration value="Intersection"/>
    </restriction>
</simpleType>
</attribute>
</extension>
</complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of HomogeneousTexture D -->
<!-- ##### -->
<!-- Definition of HomogeneousTexture D -->
<complexType name="HomogeneousTextureType" final="#all">
    <complexContent>
        <extension base="mpeg7:VisualDType">
            <sequence>
                <element name="Average" type="mpeg7:unsigned8"/>
                <element name="StandardDeviation" type="mpeg7:unsigned8"/>
                <element name="Energy" type="mpeg7:textureListType"/>
                <element name="EnergyDeviation" type="mpeg7:textureListType"
minOccurs="0"/>
            </sequence>
        </extension>
    </complexContent>
</complexType>
<!-- Definition of textureList datatype -->
<simpleType name="textureListType">
    <restriction>
        <simpleType>
            <list itemType="mpeg7:unsigned8"/>
        </simpleType>
        <length value="30"/>
    </restriction>
</simpleType>
<!-- ##### -->
<!-- Definition of TextureBrowsing D -->
>
<!-- ##### -->
<complexType name="TextureBrowsingType" final="#all">
    <complexContent>
        <extension base="mpeg7:VisualDType">
            <sequence>
                <element name="Regularity">
                    <simpleType>
                        <restriction base="string">
                            <enumeration value="irregular"/>
                            <enumeration value="slightlyRegular"/>
                            <enumeration value="regular"/>
                            <enumeration value="highlyRegular"/>
                        </restriction>
                    </simpleType>
                </element>
                <sequence maxOccurs="2">
                    <element name="Direction">
                        <simpleType>
                            <restriction base="string">
                                <enumeration value="noDirectionality"/>
                                <enumeration value="0Degree"/>
                                <enumeration value="30Degree"/>

```

```

        <enumeration value="60Degree"/>
        <enumeration value="90Degree"/>
        <enumeration value="120Degree"/>
        <enumeration value="150Degree"/>
    </restriction>
</simpleType>
</element>
<element name="Scale">
    <simpleType>
        <restriction base="string">
            <enumeration value="fine"/>
            <enumeration value="medium"/>
            <enumeration value="coarse"/>
            <enumeration value="veryCoarse"/>
        </restriction>
    </simpleType>
</element>
</sequence>
</extension>
</complexType>
<!-- ##### -->
<!-- Definition of EdgeHistogram D -->
>
<!-- ##### -->
<complexType name="EdgeHistogramType" final="#all">
    <complexContent>
        <extension base="mpeg7:VisualDType">
            <sequence>
                <element name="BinCounts">
                    <simpleType>
                        <restriction>
                            <simpleType>
                                <list itemType="mpeg7:unsigned3"/>
                            </simpleType>
                            <length value="80"/>
                        </restriction>
                    </simpleType>
                </element>
            </sequence>
        </extension>
    </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of RegionShape D -->
->
<!-- ##### -->
<complexType name="RegionShapeType" final="#all">
    <complexContent>
        <extension base="mpeg7:VisualDType">
            <sequence>
                <element name="MagnitudeOfART">
                    <simpleType>
                        <restriction>
                            <simpleType>
                                <list itemType="mpeg7:unsigned4"/>
                            </simpleType>
                            <length value="35"/>
                        </restriction>
                    </simpleType>
                </element>
            </sequence>
        </extension>
    </complexContent>
</complexType>

```

```

        </simpleType>
      </element>
    </sequence>
  </extension>
</complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of ContourShape D -->
->
<!-- ##### -->
<!-- Definition of ContourShape D -->
<complexType name="ContourShapeType" final="#all">
  <complexContent>
    <extension base="mpeg7:VisualDType">
      <sequence>
        <element name="GlobalCurvature" type="mpeg7:curvatureType"/>
        <element name="PrototypeCurvature" type="mpeg7:curvatureType"
minOccurs="0"/>
        <element name="HighestPeakY" type="mpeg7:unsigned7"/>
        <!-- VIDEO COR/1 -->
        <element name="Peak" minOccurs="0" maxOccurs="62">
          <complexType>
            <attribute name="peakX" type="mpeg7:unsigned6" use="required"/>
            <attribute name="peakY" type="mpeg7:unsigned3" use="required"/>
          </complexType>
        </element>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<!-- Definition of curvature datatype -->
<simpleType name="curvatureType">
  <restriction>
    <simpleType>
      <list itemType="mpeg7:unsigned6"/>
    </simpleType>
    <length value="2"/>
  </restriction>
</simpleType>
<!-- ##### -->
<!-- Definition of Shape3D D -->
-->
<!-- ##### -->
<complexType name="Shape3DType" final="#all">
  <complexContent>
    <extension base="mpeg7:VisualDType">
      <sequence>
        <element name="Spectrum">
          <simpleType>
            <restriction>
              <simpleType>
                <list itemType="mpeg7:unsigned12"/>
              </simpleType>
              <maxLength value="255"/>
            </restriction>
          </simpleType>
        </element>
        <element name="PlanarSurfaces" type="mpeg7:unsigned12"/>
        <element name="SingularSurfaces" type="mpeg7:unsigned12"/>
      </sequence>
    </extension>
  </complexContent>
</complexType>

```

```

        <attribute name="bitsPerBin" type="mpeg7:unsigned4" use="optional"
default="12"/>
    </extension>
</complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of CameraMotion D -->
->
<!-- ##### -->
<!-- Definition of CameraMotion D -->
<complexType name="CameraMotionType" final="#all">
    <complexContent>
        <extension base="mpeg7:VisualDType">
            <sequence>
                <element name="Segment" type="mpeg7:CameraMotionSegmentType"
minOccurs="0" maxOccurs="unbounded"/>
            </sequence>
        </extension>
    </complexContent>
</complexType>
<!-- Definition of CameraMotionSegment Datatype -->
<complexType name="CameraMotionSegmentType" abstract="true">
    <sequence>
        <element name="MediaTime" type="mpeg7:MediaTimeType"/>
        <element name="FocusOfExpansion" type="mpeg7:FocusOfExpansionType"
minOccurs="0"/>
    </sequence>
</complexType>
<!-- Definition of MixtureCameraMotionSegment Datatype -->
<complexType name="MixtureCameraMotionSegmentType" final="#all">
    <complexContent>
        <extension base="mpeg7:CameraMotionSegmentType">
            <sequence>
                <element name="FractionalPresence"
type="mpeg7:FractionalPresenceType"/>
                <element name="AmountOfMotion" type="mpeg7:MixtureAmountOfMotionType"/>
            </sequence>
        </extension>
    </complexContent>
</complexType>
<!-- Definition of NonMixtureCameraMotionSegment Datatype -->
<complexType name="NonMixtureCameraMotionSegmentType">
    <complexContent>
        <extension base="mpeg7:CameraMotionSegmentType">
            <sequence>
                <element name="AmountOfMotion"
type="mpeg7:NonMixtureAmountOfMotionType"/>
            </sequence>
        </extension>
    </complexContent>
</complexType>
<!-- Definition of FocusOfExpansion Datatype -->
<complexType name="FocusOfExpansionType">
    <sequence>
        <element name="HorizontalPosition" type="float"/>
        <element name="VerticalPosition" type="float"/>
    </sequence>
</complexType>
<!-- Definition of FractionalPresence Datatype -->
<complexType name="FractionalPresenceType" final="#all">

```

```

<sequence>
  <element name="TrackLeft" type="mpeg7:unsigned7" minOccurs="0"/>
  <element name="TrackRight" type="mpeg7:unsigned7" minOccurs="0"/>
  <element name="BoomDown" type="mpeg7:unsigned7" minOccurs="0"/>
  <element name="BoomUp" type="mpeg7:unsigned7" minOccurs="0"/>
  <element name="DollyForward" type="mpeg7:unsigned7" minOccurs="0"/>
  <element name="DollyBackward" type="mpeg7:unsigned7" minOccurs="0"/>
  <element name="PanLeft" type="mpeg7:unsigned7" minOccurs="0"/>
  <element name="PanRight" type="mpeg7:unsigned7" minOccurs="0"/>
  <element name="TiltDown" type="mpeg7:unsigned7" minOccurs="0"/>
  <element name="TiltUp" type="mpeg7:unsigned7" minOccurs="0"/>
  <element name="RollClockwise" type="mpeg7:unsigned7" minOccurs="0"/>
  <element name="RollAnticlockwise" type="mpeg7:unsigned7" minOccurs="0"/>
  <element name="ZoomIn" type="mpeg7:unsigned7" minOccurs="0"/>
  <element name="ZoomOut" type="mpeg7:unsigned7" minOccurs="0"/>
  <element name="Fixed" type="mpeg7:unsigned7" minOccurs="0"/>
</sequence>
</complexType>
<!-- Definition of MixtureAmountOfMotion Datatype -->
<complexType name="MixtureAmountOfMotionType" final="#all">
  <sequence>
    <element name="TrackLeft" type="mpeg7:unsigned11" minOccurs="0"/>
    <element name="TrackRight" type="mpeg7:unsigned11" minOccurs="0"/>
    <element name="BoomDown" type="mpeg7:unsigned11" minOccurs="0"/>
    <element name="BoomUp" type="mpeg7:unsigned11" minOccurs="0"/>
    <element name="DollyForward" type="mpeg7:unsigned11" minOccurs="0"/>
    <element name="DollyBackward" type="mpeg7:unsigned11" minOccurs="0"/>
    <element name="PanLeft" type="mpeg7:unsigned11" minOccurs="0"/>
    <element name="PanRight" type="mpeg7:unsigned11" minOccurs="0"/>
    <element name="TiltDown" type="mpeg7:unsigned11" minOccurs="0"/>
    <element name="TiltUp" type="mpeg7:unsigned11" minOccurs="0"/>
    <element name="RollClockwise" type="mpeg7:unsigned11" minOccurs="0"/>
    <element name="RollAnticlockwise" type="mpeg7:unsigned11" minOccurs="0"/>
    <element name="ZoomIn" type="mpeg7:unsigned11" minOccurs="0"/>
    <element name="ZoomOut" type="mpeg7:unsigned11" minOccurs="0"/>
  </sequence>
</complexType>
<!-- Definition of NonMixtureAmountOfMotion Datatype -->
<complexType name="NonMixtureAmountOfMotionType">
  <choice>
    <element name="TrackLeft" type="mpeg7:unsigned11"/>
    <element name="TrackRight" type="mpeg7:unsigned11"/>
    <element name="BoomDown" type="mpeg7:unsigned11"/>
    <element name="BoomUp" type="mpeg7:unsigned11"/>
    <element name="DollyForward" type="mpeg7:unsigned11"/>
    <element name="DollyBackward" type="mpeg7:unsigned11"/>
    <element name="PanLeft" type="mpeg7:unsigned11"/>
    <element name="PanRight" type="mpeg7:unsigned11"/>
    <element name="TiltDown" type="mpeg7:unsigned11"/>
    <element name="TiltUp" type="mpeg7:unsigned11"/>
    <element name="RollClockwise" type="mpeg7:unsigned11"/>
    <element name="RollAnticlockwise" type="mpeg7:unsigned11"/>
    <element name="ZoomIn" type="mpeg7:unsigned11"/>
    <element name="ZoomOut" type="mpeg7:unsigned11"/>
    <element name="Fixed">
      <complexType/>
    </element>
  </choice>
</complexType>
<!-- ##### -->

```

```

<!-- Definition of MotionTrajectory D
-->
<!-- ##### -->
<complexType name="MotionTrajectoryType" final="#all">
  <complexContent>
    <extension base="mpeg7:VisualDType">
      <sequence>
        <choice>
          <element name="CoordRef">
            <complexType>
              <attribute name="ref" type="IDREF" use="required"/>
              <attribute name="spatialRef" type="boolean" use="required"/>
            </complexType>
          </element>
          <element name="CoordDef">
            <complexType>
              <sequence>
                <element name="Repr" minOccurs="0">
                  <complexType>
                    <attribute name="x" type="mpeg7:unsigned8"
use="required"/>
                    <attribute name="y" type="mpeg7:unsigned8"
use="required"/>
                  </complexType>
                </element>
              </sequence>
              <attribute name="units" use="required">
                <simpleType>
                  <restriction base="string">
                    <enumeration value="pictureHeight"/>
                    <enumeration value="pictureWidth"/>
                    <enumeration value="pictureWidthAndHeight"/>
                    <enumeration value="meter"/>
                  </restriction>
                </simpleType>
              </attribute>
            </complexType>
          </element>
        </choice>
        <element name="Params" type="mpeg7:TemporalInterpolationType"/>
      </sequence>
      <attribute name="cameraFollows" type="boolean" use="optional"/>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of ParametricMotion D
-->
<!-- ##### -->
<complexType name="ParametricMotionType" final="#all">
  <complexContent>
    <extension base="mpeg7:VisualDType">
      <sequence>
        <choice>
          <element name="CoordRef">
            <complexType>
              <attribute name="ref" type="IDREF" use="required"/>
              <attribute name="spatialRef" type="boolean" use="required"/>
            </complexType>
          </element>

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```

        <element name="CoordDef">
            <complexType>
                <attribute name="originX" type="float" use="required"/>
                <attribute name="originY" type="float" use="required"/>
            </complexType>
        </element>
    </choice>
    <element name="MediaDuration" type="mpeg7:MediaIncrDurationType"/>
    <element name="Parameters">
        <simpleType>
            <restriction base="mpeg7:floatVector">
                <maxLength value="12"/>
            </restriction>
        </simpleType>
    </element>
</sequence>
<attribute name="motionModel" use="required">
    <simpleType>
        <restriction base="string">
            <enumeration value="translational"/>
            <enumeration value="rotationOrScaling"/>
            <enumeration value="affine"/>
            <enumeration value="perspective"/>
            <enumeration value="quadratic"/>
        </restriction>
    </simpleType>
</attribute>
</extension>
</complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of MotionActivity D -->
-->
<!-- ##### -->
<complexType name="MotionActivityType" final="#all">
    <complexContent>
        <extension base="mpeg7:VisualDType">
            <sequence>
                <element name="Intensity">
                    <simpleType>
                        <restriction base="mpeg7:unsigned3">
                            <minInclusive value="1"/>
                            <maxInclusive value="5"/>
                        </restriction>
                    </simpleType>
                </element>
                <element name="DominantDirection" type="mpeg7:unsigned3"
minOccurs="0"/>
                <element name="SpatialDistributionParams" minOccurs="0">
                    <complexType>
                        <attribute name="numOfShortRuns" type="mpeg7:unsigned6"
use="required"/>
                        <attribute name="numOfMediumRuns" type="mpeg7:unsigned5"
use="required"/>
                        <attribute name="numOfLongRuns" type="mpeg7:unsigned5"
use="required"/>
                    </complexType>
                </element>
                <element name="SpatialLocalizationParams" minOccurs="0">
                    <complexType>

```

```

        <choice>
          <element name="Vector4">
            <simpleType>
              <restriction>
                <simpleType>
                  <list itemType="mpeg7:unsigned3"/>
                </simpleType>
                <length value="4"/>
              </restriction>
            </simpleType>
          </element>
          <element name="Vector16">
            <simpleType>
              <restriction>
                <simpleType>
                  <list itemType="mpeg7:unsigned3"/>
                </simpleType>
                <length value="16"/>
              </restriction>
            </simpleType>
          </element>
          <element name="Vector64">
            <simpleType>
              <restriction>
                <simpleType>
                  <list itemType="mpeg7:unsigned3"/>
                </simpleType>
                <length value="64"/>
              </restriction>
            </simpleType>
          </element>
          <element name="Vector256">
            <simpleType>
              <restriction>
                <simpleType>
                  <list itemType="mpeg7:unsigned3"/>
                </simpleType>
                <length value="256"/>
              </restriction>
            </simpleType>
          </element>
        </choice>
      </complexType>
    </element>
    <element name="TemporalParams" minOccurs="0">
      <simpleType>
        <restriction>
          <simpleType>
            <list itemType="mpeg7:unsigned6"/>
          </simpleType>
          <length value="5"/>
        </restriction>
      </simpleType>
    </element>
  </sequence>
</extension>
</complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of RegionLocator Datatype

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```

<!-- ##### -->
<!-- Definition of RegionLocator Datatype -->
<complexType name="RegionLocatorType" final="#all">
  <sequence>
    <element name="CoordRef" minOccurs="0">
      <complexType>
        <attribute name="ref" type="IDREF" use="required"/>
        <attribute name="spatialRef" type="boolean" use="optional"
default="false"/>
      </complexType>
    </element>
    <element name="Box" minOccurs="0" maxOccurs="unbounded">
      <complexType>
        <simpleContent>
          <extension base="mpeg7:BoxListType">
            <attribute name="unlocatedRegion" type="boolean" use="optional"
default="false"/>
          </extension>
        </simpleContent>
      </complexType>
    </element>
    <element name="Polygon" minOccurs="0" maxOccurs="unbounded">
      <complexType>
        <sequence>
          <element name="Coords" type="mpeg7:IntegerMatrixType"/>
        </sequence>
        <attribute name="unlocatedRegion" type="boolean" use="optional"
default="false"/>
      </complexType>
    </element>
  </sequence>
</complexType>
<!-- Definition of BoxList Datatype -->
<complexType name="BoxListType">
  <simpleContent>
    <restriction base="mpeg7:IntegerMatrixType"/>
  </simpleContent>
</complexType>
<!-- ##### -->
<!-- Definition of SpatioTemporalLocator Datatype -->
<!-- ##### -->
<!-- Definition of SpatioTemporalLocator Datatype -->
<complexType name="SpatioTemporalLocatorType" final="#all">
  <sequence>
    <element name="CoordRef" minOccurs="0">
      <complexType>
        <attribute name="ref" type="IDREF" use="required"/>
        <attribute name="spatialRef" type="boolean" use="required"/>
      </complexType>
    </element>
    <choice maxOccurs="unbounded">
      <element name="FigureTrajectory" type="mpeg7:FigureTrajectoryType"/>
      <element name="ParameterTrajectory" type="mpeg7:ParameterTrajectoryType"/>
      <element name="MediaTime" type="mpeg7:MediaTimeType"/>
    </choice>
  </sequence>
</complexType>
<!-- Definition of FigureTrajectory Datatype -->
<complexType name="FigureTrajectoryType" final="#all">
  <sequence>

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```

        <element name="MediaTime" type="mpeg7:MediaTimeType"/>
        <element name="Vertex" type="mpeg7:TemporalInterpolationType" minOccurs="3"
maxOccurs="unbounded"/>
        <element name="Depth" type="mpeg7:TemporalInterpolationType" minOccurs="0"/>
    </sequence>
    <attribute name="type" use="required">
        <simpleType>
            <restriction base="string">
                <enumeration value="rectangle"/>
                <enumeration value="ellipse"/>
                <enumeration value="polygon"/>
            </restriction>
        </simpleType>
    </attribute>
</complexType>
<!-- Definition of ParameterTrajectory Datatype -->
<complexType name="ParameterTrajectoryType" final="#all">
    <sequence>
        <element name="MediaTime" type="mpeg7:MediaTimeType"/>
        <element name="InitialRegion" type="mpeg7:RegionLocatorType"/>
        <element name="Params" type="mpeg7:TemporalInterpolationType" minOccurs="0"/>
        <element name="Depth" type="mpeg7:TemporalInterpolationType" minOccurs="0"/>
    </sequence>
    <attribute name="motionModel" use="required">
        <simpleType>
            <restriction base="string">
                <enumeration value="still"/>
                <enumeration value="translation"/>
                <enumeration value="rotationAndScaling"/>
                <enumeration value="affine"/>
                <enumeration value="perspective"/>
                <enumeration value="parabolic"/>
            </restriction>
        </simpleType>
    </attribute>
    <attribute name="ellipseFlag" type="boolean" use="optional" default="false"/>
</complexType>
<!-- ##### -->
<!-- Definition of FaceRecognition D -->
>
<!-- ##### -->
<complexType name="FaceRecognitionType" final="#all">
    <complexContent>
        <extension base="mpeg7:VisualDType">
            <sequence>
                <element name="Feature">
                    <simpleType>
                        <restriction>
                            <simpleType>
                                <list itemType="mpeg7:unsigned5"/>
                            </simpleType>
                                <length value="48"/>
                            </restriction>
                        </simpleType>
                    </element>
                </sequence>
            </extension>
        </complexContent>
    </complexType>
<!-- ***** -->

```

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<!-- ***** ISO/IEC 15938-4 Visual AMD/1
*****-->
<!-- *****-->
<!-- ##### -->
<!-- Definition of MPEG-7 GofGopFeatureType -->
<!-- ##### -->
<complexType name="GofGopFeatureType">
  <sequence>
    <element name="Descriptor" type="mpeg7:VisualDType"/>
  </sequence>
  <attribute name="aggregation" use="optional">
    <simpleType>
      <restriction base="string">
        <enumeration value="Average"/>
        <enumeration value="Median"/>
        <enumeration value="SplitMerge"/>
      </restriction>
    </simpleType>
  </attribute>
</complexType>
<!-- ##### -->
<!-- Definition of MPEG-7 ColorTemperatureType -->
<!-- ##### -->
<complexType name="ColorTemperatureType" final="#all">
  <complexContent>
    <extension base="mpeg7:VisualDType">
      <sequence>
        <element name="BrowsingCategory">
          <simpleType>
            <restriction base="string">
              <enumeration value="hot"/>
              <enumeration value="warm"/>
              <enumeration value="moderate"/>
              <enumeration value="cool"/>
            </restriction>
          </simpleType>
        </element>
        <element name="SubRangeIndex" type="mpeg7:unsigned6"/>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of MPEG-7 IlluminationInvariantColorType -->
<!-- ##### -->
<complexType name="IlluminationInvariantColorType">
  <choice>
    <element name="DominantColor" type="mpeg7:DominantColorType"/>
    <element name="ScalableColor" type="mpeg7:ScalableColorType"/>
    <element name="ColorLayout" type="mpeg7:ColorLayoutType"/>
    <element name="ColorStructure" type="mpeg7:ColorStructureType"/>
  </choice>
</complexType>
<!-- ##### -->
<!-- Definition of MPEG-7 ShapeVariationType -->
<!-- ##### -->
<complexType name="ShapeVariationType" final="#all">
  <complexContent>
    <extension base="mpeg7:VisualDType">
      <sequence>

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        <element name="StaticShapeVariation">
            <simpleType>
                <restriction>
                    <simpleType>
                        <list itemType="mpeg7:unsigned4"/>
                    </simpleType>
                    <length value="35"/>
                </restriction>
            </simpleType>
        </element>
        <element name="DynamicShapeVariation">
            <simpleType>
                <restriction>
                    <simpleType>
                        <list itemType="mpeg7:unsigned4"/>
                    </simpleType>
                    <length value="35"/>
                </restriction>
            </simpleType>
        </element>
        <element name="StatisticalVariation">
            <simpleType>
                <restriction>
                    <simpleType>
                        <list itemType="mpeg7:unsigned4"/>
                    </simpleType>
                    <length value="35"/>
                </restriction>
            </simpleType>
        </element>
    </sequence>
</extension>
</complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of MPEG-7 "AdvancedFaceRecognitionType" -->
<!-- ##### -->
<complexType name="AdvancedFaceRecognitionType" final="#all">
    <complexContent>
        <extension base="mpeg7:VisualDType">
            <sequence>
                <element name="FourierFeature">
                    <simpleType>
                        <restriction>
                            <simpleType>
                                <list itemType="mpeg7:unsigned5"/>
                            </simpleType>
                            <minLength value="24"/>
                            <maxLength value="63"/>
                        </restriction>
                    </simpleType>
                </element>
                <element name="CentralFourierFeature">
                    <simpleType>
                        <restriction>
                            <simpleType>
                                <list itemType="mpeg7:unsigned5"/>
                            </simpleType>
                            <minLength value="24"/>
                            <maxLength value="63"/>
                        </restriction>
                    </simpleType>
                </element>
            </sequence>
        </extension>
    </complexContent>
</complexType>

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```

        </restriction>
      </simpleType>
    </element>
    <sequence minOccurs="0">
      <element name="CompositeFeature">
        <simpleType>
          <restriction>
            <simpleType>
              <list itemType="mpeg7:unsigned5"/>
            </simpleType>
            <minLength value="0"/>
            <maxLength value="63"/>
          </restriction>
        </simpleType>
      </element>
      <element name="SubregionCompositeFeature">
        <simpleType>
          <restriction>
            <simpleType>
              <list itemType="mpeg7:unsigned5"/>
            </simpleType>
            <minLength value="0"/>
            <maxLength value="63"/>
          </restriction>
        </simpleType>
      </element>
    </sequence>
  </extension>
</complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of media-centric visual DSs -->
<!-- ##### -->
<!-- Definition of MPEG-7 Still Region Feature Type -->
<!-- ##### -->
<complexType name="StillRegionFeatureType">
  <complexContent>
    <extension base="mpeg7:VisualDSType">
      <sequence>
        <!-- List of features available -->
        <!-- Color Distribution -->
        <!-- for the region with limited number of colors -->
        <element name="DominantColor" type="mpeg7:DominantColorType"
minOccurs="0"/>
        <!-- for generic applications -->
        <element name="ScalableColor" type="mpeg7:ScalableColorType"
minOccurs="0"/>
        <!-- for high-level applications requesting precise retrieval -->
        <element name="ColorStructure" type="mpeg7:ColorStructureType"
minOccurs="0"/>
        <!-- Spatial Distribution of Color -->
        <element name="ColorLayout" type="mpeg7:ColorLayoutType"
minOccurs="0"/>
        <!-- Color Temperature -->
        <element name="ColorTemperature" type="mpeg7:ColorTemperatureType"
minOccurs="0"/>
        <!-- Illumination Independent Color -->
        <element name="IlluminationCompensatedColor"
type="mpeg7:IlluminationInvariantColorType" minOccurs="0"/>

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```

        <!-- Spatial Distribution of edges -->
        <element name="Edge" type="mpeg7:EdgeHistogramType" minOccurs="0"/>
        <!-- Homogeneous Patterns -->
        <!-- It is applicable only to the picture with homogeneous pattern -->
        <element name="HomogeneousPattern" type="mpeg7:HomogeneousTextureType"
minOccurs="0"/>

        <!-- In case only rough browsing is requested -->
        <element name="TextureBrowsing" type="mpeg7:TextureBrowsingType"
minOccurs="0"/>

        <!-- Shape -->
        <!-- for shape mask-->
        <element name="ShapeMask" type="mpeg7:RegionShapeType" minOccurs="0"/>
        <!-- for contour -->
        <element name="Contour" type="mpeg7:ContourShapeType" minOccurs="0"/>
    </sequence>
</extension>
</complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of MPEG-7 VideoSegmentFeatureType -->
<!-- ##### -->
<complexType name="VideoSegmentFeatureType">
    <complexContent>
        <extension base="mpeg7:VisualDSType">
            <sequence>
                <!-- List of features available -->
                <!-- Temporal transition of frame feature -->
                <element name="TemporalTransition" type="mpeg7:VisualTimeSeriesType"
minOccurs="0" maxOccurs="unbounded"/>
                <!-- Representative feature over all frame in the sequence -->
                <element name="RepresentativeFeature" type="mpeg7:GofGopFeatureType"
minOccurs="0" maxOccurs="unbounded"/>
                <!-- motion activity -->
                <element name="MotionActivity" type="mpeg7:MotionActivityType"
minOccurs="0"/>
            </sequence>
        </extension>
    </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of MPEG-7 MovingRegionFeatureType -->
<!-- ##### -->
<complexType name="MovingRegionFeatureType">
    <complexContent>
        <extension base="mpeg7:VideoSegmentFeatureType">
            <sequence>
                <!-- List of features available -->
                <!-- description of statistical characteristics of shape changes -->
                <element name="ShapeVariation" type="mpeg7:ShapeVariationType"
minOccurs="0"/>
                <!-- description of motion characteristics -->
                <choice minOccurs="0">
                    <element name="ParametricMotion" type="mpeg7:ParametricMotionType"/>
                    <element name="MotionTrajectory" type="mpeg7:MotionTrajectoryType"/>
                </choice>
            </sequence>
        </extension>
    </complexContent>
</complexType>
<!-- ***** -->

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<!-- ***** ISO/IEC 15938-4 AUDIO *****-->
<!-- *****-->
<annotation>
  <documentation>
    This section contains tools defined in:
      ISO/IEC 15938-4 + ISO/IEC 15938-4 AMD/1 (Audio)
  </documentation>
</annotation>
<!-- ##### -->
<!-- Definition of AudioLLDScalar D -->
<!-- ##### -->
<complexType name="AudioLLDScalarType" abstract="true">
  <complexContent>
    <extension base="mpeg7:AudioDType">
      <choice>
        <element name="Scalar" type="float"/>
        <element name="SeriesOfScalar" maxOccurs="unbounded">
          <complexType>
            <complexContent>
              <extension base="mpeg7:SeriesOfScalarType">
                <attribute name="hopSize" type="mpeg7:mediaDurationType"
default="PT10N1000F"/>
              </extension>
            </complexContent>
          </complexType>
        </element>
      </choice>
      <attribute name="confidence" type="mpeg7:zeroToOneType" use="optional"/>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of AudioLLDVector D -->
<!-- ##### -->
<complexType name="AudioLLDVectorType" abstract="true">
  <complexContent>
    <extension base="mpeg7:AudioDType">
      <choice>
        <element name="Vector" type="mpeg7:floatVector"/>
        <element name="SeriesOfVector" maxOccurs="unbounded">
          <complexType>
            <complexContent>
              <extension base="mpeg7:SeriesOfVectorType">
                <attribute name="hopSize" type="mpeg7:mediaDurationType"
default="PT10N1000F"/>
              </extension>
            </complexContent>
          </complexType>
        </element>
      </choice>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of AudioWaveform D -->
<!-- ##### -->
<complexType name="AudioWaveformType">
  <complexContent>
    <extension base="mpeg7:AudioLLDScalarType">
      <attribute name="minRange" type="float" use="optional"/>
    </extension>
  </complexContent>
</complexType>

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        <attribute name="maxRange" type="float" use="optional"/>
    </extension>
</complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of audioSpectrumAttributeGrp -->
<!-- ##### -->
<attributeGroup name="audioSpectrumAttributeGrp">
    <attribute name="loEdge" type="float" default="62.5"/>
    <attribute name="hiEdge" type="float" default="16000"/>
    <attribute name="octaveResolution" use="optional">
        <simpleType>
            <restriction base="string">
                <enumeration value="1/16"/>
                <enumeration value="1/8"/>
                <enumeration value="1/4"/>
                <enumeration value="1/2"/>
                <enumeration value="1"/>
                <enumeration value="2"/>
                <enumeration value="4"/>
                <enumeration value="8"/>
            </restriction>
        </simpleType>
    </attribute>
    <!-- Edge values are in Hertz -->
</attributeGroup>
<!-- ##### -->
<!-- Definition of AudioSpectrumEnvelope D -->
<!-- ##### -->
<complexType name="AudioSpectrumEnvelopeType">
    <complexContent>
        <extension base="mpeg7:AudioLLDVectorType">
            <attributeGroup ref="mpeg7:audioSpectrumAttributeGrp"/>
        </extension>
    </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of AudioPower D -->
<!-- ##### -->
<complexType name="AudioPowerType">
    <complexContent>
        <extension base="mpeg7:AudioLLDScalarType"/>
    </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of AudioSpectrumCentroid D -->
<!-- ##### -->
<complexType name="AudioSpectrumCentroidType">
    <complexContent>
        <extension base="mpeg7:AudioLLDScalarType"/>
    </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of AudioSpectrumSpread D -->
<!-- ##### -->
<complexType name="AudioSpectrumSpreadType">
    <complexContent>
        <extension base="mpeg7:AudioLLDScalarType"/>
    </complexContent>
</complexType>

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<!-- ##### -->
<!-- Definition of AudioFundamentalFrequency D -->
<!-- ##### -->
<complexType name="AudioFundamentalFrequencyType">
  <complexContent>
    <extension base="mpeg7:AudioLLDScalarType">
      <attribute name="loLimit" type="float" default="25"/>
      <attribute name="hiLimit" type="float" use="optional"/>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of AudioHarmonicity D -->
<!-- ##### -->
<complexType name="AudioHarmonicityType">
  <complexContent>
    <extension base="mpeg7:AudioDType">
      <sequence>
        <element name="HarmonicRatio" type="mpeg7:AudioLLDScalarType"/>
        <element name="UpperLimitOfHarmonicity"
type="mpeg7:AudioLLDScalarType"/>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of AudioSpectrumFlatness D -->
<!-- ##### -->
<complexType name="AudioSpectrumFlatnessType">
  <complexContent>
    <extension base="mpeg7:AudioLLDVectorType">
      <attribute name="loEdge" type="float" default="250"/>
      <attribute name="hiEdge" type="float" default="16000"/>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of AudioSpectrumBasis D -->
<!-- ##### -->
<complexType name="AudioSpectrumBasisType">
  <complexContent>
    <extension base="mpeg7:AudioLLDVectorType">
      <attributeGroup ref="mpeg7:audioSpectrumAttributeGrp"/>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of AudioSpectrumProjection D -->
<!-- ##### -->
<complexType name="AudioSpectrumProjectionType">
  <complexContent>
    <extension base="mpeg7:AudioLLDVectorType"/>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of LogAttackTime D -->
<!-- ##### -->
<complexType name="LogAttackTimeType">
  <complexContent>
    <extension base="mpeg7:AudioLLDScalarType"/>
  </complexContent>
</complexType>

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    </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of HarmonicSpectralCentroid D -->
<!-- ##### -->
<complexType name="HarmonicSpectralCentroidType">
    <complexContent>
        <extension base="mpeg7:AudioLLDScalarType"/>
    </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of HarmonicSpectralDeviation D -->
<!-- ##### -->
<complexType name="HarmonicSpectralDeviationType">
    <complexContent>
        <extension base="mpeg7:AudioLLDScalarType"/>
    </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of HarmonicSpectralSpread D -->
<!-- ##### -->
<complexType name="HarmonicSpectralSpreadType">
    <complexContent>
        <extension base="mpeg7:AudioLLDScalarType"/>
    </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of HarmonicSpectralVariation D -->
<!-- ##### -->
<complexType name="HarmonicSpectralVariationType">
    <complexContent>
        <extension base="mpeg7:AudioLLDScalarType"/>
    </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of SpectralCentroid D -->
<!-- ##### -->
<complexType name="SpectralCentroidType">
    <complexContent>
        <extension base="mpeg7:AudioLLDScalarType"/>
    </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of TemporalCentroid D -->
<!-- ##### -->
<complexType name="TemporalCentroidType">
    <complexContent>
        <extension base="mpeg7:AudioLLDScalarType"/>
    </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of ScalableSeries datatype -->
<!-- ##### -->
<complexType name="ScalableSeriesType" abstract="true">
    <sequence>
        <element name="Scaling" minOccurs="0" maxOccurs="unbounded">
            <complexType>
                <attribute name="ratio" type="positiveInteger" use="required"/>
                <attribute name="numOfElements" type="positiveInteger" use="required"/>
            </complexType>

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    </element>
  </sequence>
  <attribute name="totalNumOfSamples" type="positiveInteger" use="required"/>
</complexType>
<!-- ##### -->
<!-- Definition of SeriesOfScalar datatype -->
<!-- ##### -->
<complexType name="SeriesOfScalarType">
  <complexContent>
    <extension base="mpeg7:ScalableSeriesType">
      <sequence>
        <element name="Raw" type="mpeg7:floatVector" minOccurs="0"/>
        <element name="Min" type="mpeg7:floatVector" minOccurs="0"/>
        <element name="Max" type="mpeg7:floatVector" minOccurs="0"/>
        <element name="Mean" type="mpeg7:floatVector" minOccurs="0"/>
        <element name="Random" type="mpeg7:floatVector" minOccurs="0"/>
        <element name="First" type="mpeg7:floatVector" minOccurs="0"/>
        <element name="Last" type="mpeg7:floatVector" minOccurs="0"/>
        <element name="Variance" type="mpeg7:floatVector" minOccurs="0"/>
        <element name="Weight" type="mpeg7:floatVector" minOccurs="0"/>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of SeriesOfScalarBinary datatype -->
<!-- ##### -->
<complexType name="SeriesOfScalarBinaryType">
  <complexContent>
    <extension base="mpeg7:SeriesOfScalarType">
      <sequence>
        <element name="VarianceScalewise" type="mpeg7:FloatMatrixType"
minOccurs="0"/>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of SeriesOfVector datatype -->
<!-- ##### -->
<complexType name="SeriesOfVectorType">
  <complexContent>
    <extension base="mpeg7:ScalableSeriesType">
      <sequence>
        <element name="Raw" type="mpeg7:FloatMatrixType" minOccurs="0"/>
        <element name="Min" type="mpeg7:FloatMatrixType" minOccurs="0"/>
        <element name="Max" type="mpeg7:FloatMatrixType" minOccurs="0"/>
        <element name="Mean" type="mpeg7:FloatMatrixType" minOccurs="0"/>
        <element name="Random" type="mpeg7:FloatMatrixType" minOccurs="0"/>
        <element name="First" type="mpeg7:FloatMatrixType" minOccurs="0"/>
        <element name="Last" type="mpeg7:FloatMatrixType" minOccurs="0"/>
        <element name="Variance" type="mpeg7:FloatMatrixType" minOccurs="0"/>
        <element name="Covariance" type="mpeg7:FloatMatrixType" minOccurs="0"/>
        <element name="VarianceSummed" type="mpeg7:floatVector" minOccurs="0"/>
        <element name="MaxSqDist" type="mpeg7:floatVector" minOccurs="0"/>
        <element name="Weight" type="mpeg7:floatVector" minOccurs="0"/>
      </sequence>
      <attribute name="vectorSize" type="positiveInteger" default="1"/>
    </extension>
  </complexContent>

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</complexType>
<!-- ##### -->
<!-- Definition of SeriesOfVectorBinary datatype -->
<!-- ##### -->
<complexType name="SeriesOfVectorBinaryType">
  <complexContent>
    <extension base="mpeg7:SeriesOfVectorType">
      <sequence>
        <element name="VarianceScalewise" type="mpeg7:FloatMatrixType"
minOccurs="0"/>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of SilenceHeader header -->
<!-- ##### -->
<complexType name="SilenceHeaderType">
  <complexContent>
    <extension base="mpeg7:HeaderType">
      <attribute name="minDuration" type="mpeg7:mediaDurationType"
use="required"/>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of Silence D -->
<!-- ##### -->
<complexType name="SilenceType">
  <complexContent>
    <extension base="mpeg7:AudioDType">
      <attribute name="confidence" type="mpeg7:zeroToOneType" default="1.0"/>
      <attribute name="minDurationRef" type="anyURI" use="optional"/>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of AudioSignature DS -->
<!-- ##### -->
<complexType name="AudioSignatureType">
  <complexContent>
    <extension base="mpeg7:AudioDSType">
      <sequence>
        <element name="Flatness" type="mpeg7:AudioSpectrumFlatnessType"/>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of InstrumentTimbre DS -->
<!-- ##### -->
<complexType name="InstrumentTimbreType">
  <complexContent>
    <extension base="mpeg7:AudioDSType">
      <sequence>
        <element name="LogAttackTime" type="mpeg7:LogAttackTimeType"
minOccurs="0"/>
        <element name="HarmonicSpectralCentroid"
type="mpeg7:HarmonicSpectralCentroidType" minOccurs="0"/>
      </sequence>
    </extension>
  </complexContent>
</complexType>

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        <element name="HarmonicSpectralDeviation"
type="mpeg7:HarmonicSpectralDeviationType" minOccurs="0"/>
        <element name="HarmonicSpectralSpread"
type="mpeg7:HarmonicSpectralSpreadType" minOccurs="0"/>
        <element name="HarmonicSpectralVariation"
type="mpeg7:HarmonicSpectralVariationType" minOccurs="0"/>
        <element name="SpectralCentroid" type="mpeg7:SpectralCentroidType"
minOccurs="0"/>
        <element name="TemporalCentroid" type="mpeg7:TemporalCentroidType"
minOccurs="0"/>
    </sequence>
</extension>
</complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of HarmonicInstrumentTimbre DS -->
<!-- ##### -->
<complexType name="HarmonicInstrumentTimbreType">
    <complexContent>
        <extension base="mpeg7:AudioDSType">
            <sequence>
                <element name="LogAttackTime" type="mpeg7:LogAttackTimeType"/>
                <element name="HarmonicSpectralCentroid"
type="mpeg7:HarmonicSpectralCentroidType"/>
                <element name="HarmonicSpectralDeviation"
type="mpeg7:HarmonicSpectralDeviationType"/>
                <element name="HarmonicSpectralSpread"
type="mpeg7:HarmonicSpectralSpreadType"/>
                <element name="HarmonicSpectralVariation"
type="mpeg7:HarmonicSpectralVariationType"/>
            </sequence>
        </extension>
    </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of PercussiveInstrumentTimbre DS -->
<!-- ##### -->
<complexType name="PercussiveInstrumentTimbreType">
    <complexContent>
        <extension base="mpeg7:AudioDSType">
            <sequence>
                <element name="LogAttackTime" type="mpeg7:LogAttackTimeType"/>
                <element name="SpectralCentroid" type="mpeg7:SpectralCentroidType"/>
                <element name="TemporalCentroid" type="mpeg7:TemporalCentroidType"/>
            </sequence>
        </extension>
    </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of SpokenContentHeader header -->
<!-- ##### -->
<complexType name="SpokenContentHeaderType">
    <complexContent>
        <extension base="mpeg7:HeaderType">
            <sequence>
                <choice maxOccurs="unbounded">
                    <element name="WordLexicon" type="mpeg7:WordLexiconType"/>
                    <element name="PhoneLexicon" type="mpeg7:PhoneLexiconType"/>
                </choice>
                <!-- Information about the word and phone lexicons used to -->
                <!-- represent the speech -->
            </sequence>
        </extension>
    </complexContent>
</complexType>

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        </choice>
        <element name="ConfusionInfo" type="mpeg7:ConfusionCountType"
minOccurs="0" maxOccurs="unbounded"/>
        <element name="DescriptionMetadata"
type="mpeg7:DescriptionMetadataType" minOccurs="0"/>
        <element name="SpeakerInfo" type="mpeg7:SpeakerInfoType"
maxOccurs="unbounded"/>
        <!-- Information about the speakers in the audio -->
    </sequence>
</extension>
</complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of SpeakerInfo header -->
<!-- ##### -->
<complexType name="SpeakerInfoType">
    <complexContent>
        <extension base="mpeg7:HeaderType">
            <sequence>
                <element name="SpokenLanguage" type="language"/>
                <element name="Person" type="mpeg7:PersonType" minOccurs="0"/>
                <element name="WordIndex" minOccurs="0">
                    <complexType>
                        <sequence>
                            <element name="WordIndexEntry" maxOccurs="unbounded">
                                <complexType>
                                    <sequence>
                                        <element name="IndexEntry"
type="mpeg7:SpokenContentIndexEntryType" maxOccurs="unbounded"/>
                                    </sequence>
                                    <attribute name="key" use="required">
                                        <simpleType>
                                            <list itemType="mpeg7:WordLexiconIndexType"/>
                                        </simpleType>
                                    </attribute>
                                </complexType>
                            </element>
                        </sequence>
                        <attribute name="defaultLattice" type="anyURI" use="required"/>
                    </complexType>
                </element>
                <element name="PhoneIndex" minOccurs="0">
                    <complexType>
                        <sequence>
                            <element name="PhoneIndexEntry" maxOccurs="unbounded">
                                <complexType>
                                    <sequence>
                                        <element name="IndexEntry"
type="mpeg7:SpokenContentIndexEntryType" maxOccurs="unbounded"/>
                                    </sequence>
                                    <attribute name="key" use="required">
                                        <simpleType>
                                            <list
itemType="mpeg7:PhoneLexiconIndexType"/>
                                        </simpleType>
                                    </attribute>
                                </complexType>
                            </element>
                        </sequence>
                        <attribute name="defaultLattice" type="anyURI" use="required"/>
                    </complexType>
                </element>
            </sequence>
        </extension>
    </complexContent>
</complexType>

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        </complexType>
      </element>
    </sequence>
    <attribute name="phoneLexiconRef" type="anyURI" use="optional"/>
    <attribute name="wordLexiconRef" type="anyURI" use="optional"/>
    <attribute name="confusionInfoRef" type="anyURI" use="optional"/>
    <attribute name="descriptionMetadataRef" type="anyURI" use="optional"/>
    <attribute name="provenance" use="required">
      <simpleType>
        <restriction base="NMTOKEN">
          <enumeration value="unknown"/>
          <enumeration value="ASR"/>
          <enumeration value="manual"/>
          <enumeration value="keyword"/>
          <enumeration value="parsing"/>
        </restriction>
      </simpleType>
    </attribute>
  </extension>
</complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of SpokenContentIndexEntry datatype -->
<!-- ##### -->
<complexType name="SpokenContentIndexEntryType">
  <attribute name="node" type="mpeg7:unsigned16" use="required"/>
  <attribute name="block" type="mpeg7:unsigned16" use="required"/>
  <attribute name="lattice" type="anyURI" use="optional"/>
</complexType>
<!-- ##### -->
<!-- Definitions of SpokenContent Word and Phone datatypes -->
<!-- ##### -->
<simpleType name="WordType">
  <restriction base="string"/>
</simpleType>
<simpleType name="PhoneType">
  <restriction base="string"/>
</simpleType>
<simpleType name="WordLexiconIndexType">
  <restriction base="mpeg7:unsigned32"/>
</simpleType>
<simpleType name="PhoneLexiconIndexType">
  <restriction base="mpeg7:unsigned16"/>
</simpleType>
<!-- ##### -->
<!-- Definition of Lexicon header -->
<!-- ##### -->
<complexType name="LexiconType" abstract="true">
  <complexContent>
    <extension base="mpeg7:HeaderType">
      <attribute name="numOfOriginalEntries" type="positiveInteger"
use="optional"/>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of WordLexiconType (Audio AMD/1) -->
-->
<!-- ##### -->
<!-- ##### -->

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<!-- Definition of WordLexiconType -->
<!-- ##### -->
<complexType name="WordLexiconType">
  <complexContent>
    <extension base="mpeg7:LexiconType">
      <sequence>
        <element name="Token">
          <complexType>
            <simpleContent>
              <extension base="mpeg7:WordType">
                <attribute name="linguisticUnit" use="optional"
default="word">
                  <simpleType>
                    <union>
                      <simpleType>
                        <restriction base="NMTOKEN">
                          <enumeration value="word"/>
                          <enumeration value="syllable"/>
                          <enumeration value="morpheme"/>
                          <enumeration value="phrase"/>
                          <enumeration value="component"/>
                          <enumeration value="stem"/>
                          <enumeration value="affix"/>
                          <enumeration value="nonspeech"/>
                          <enumeration value="other"/>
                        </restriction>
                      </simpleType>
                      <simpleType>
                        <restriction
base="mpeg7:termAliasReferenceType"/>
                      </simpleType>
                      <simpleType>
                        <restriction
base="mpeg7:termURIReferenceType"/>
                      </simpleType>
                    </union>
                  </simpleType>
                </attribute>
                <attribute name="representation" use="optional"
default="orthographic">
                  <simpleType>
                    <restriction base="NMTOKEN">
                      <enumeration value="orthographic"/>
                      <enumeration value="nonorthographic"/>
                    </restriction>
                  </simpleType>
                </attribute>
              </extension>
            </simpleContent>
            <!-- New attribute V2 -->
          </complexType>
        </element>
      </sequence>
      <attribute name="phoneticAlphabet" type="mpeg7:phoneticAlphabetType"
use="optional"/>
    </extension>
    <!-- New attribute V2 -->
  </complexContent>
</complexType>
<!-- ##### -->

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<!-- Definition of phoneticAlphabet datatype -->
<!-- ##### -->
<simpleType name="phoneticAlphabetType">
  <restriction base="NMTOKEN">
    <enumeration value="sampa"/>
    <enumeration value="ipaSymbol"/>
    <enumeration value="ipaNumber"/>
    <enumeration value="other"/>
  </restriction>
  <!-- This defines an [enumerated] type covering the phone sets. It -->
  <!-- essentially distinguishes between IPA based systems and everything -->
  <!-- else. -->
</simpleType>
<!-- ##### -->
<!-- Definition of PhoneLexicon header -->
<!-- ##### -->
<complexType name="PhoneLexiconType">
  <complexContent>
    <extension base="mpeg7:LexiconType">
      <sequence>
        <element name="Token" type="mpeg7:PhoneType" maxOccurs="65536"/>
        <!-- The maxOccurs is the upper limit of WordLexiconIndexType -->
      </sequence>
      <attribute name="phoneticAlphabet" type="mpeg7:phoneticAlphabetType"
default="sampa"/>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of ConfusionCount header -->
<!-- ##### -->
<complexType name="ConfusionCountType">
  <complexContent>
    <extension base="mpeg7:HeaderType">
      <sequence>
        <element name="Insertion" type="mpeg7:integerVector"/>
        <element name="Deletion" type="mpeg7:integerVector"/>
        <element name="Substitution" type="mpeg7:IntegerMatrixType"/>
      </sequence>
      <attribute name="numOfDimensions" type="positiveInteger" use="required"/>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of the SpokenContentLattice DS -->
<!-- ##### -->
<complexType name="SpokenContentLatticeType">
  <complexContent>
    <extension base="mpeg7:AudioDSType">
      <sequence>
        <element name="Block" maxOccurs="65536">
          <complexType>
            <sequence>
              <element name="MediaTime" type="mpeg7:MediaTimeType"/>
              <element name="Node" maxOccurs="65536">
                <complexType>
                  <sequence>
                    <element name="WordLink" minOccurs="0"
maxOccurs="127">
                </complexType>
              </element>
            </sequence>
          </complexType>
        </element>
      </sequence>
    </extension>
  </complexContent>
</complexType>

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```

                                <complexContent>
                                    <extension
base="mpeg7:SpokenContentLinkType">
                                <attribute name="word"
type="mpeg7:WordLexiconIndexType" use="required"/>
                                    </extension>
                                </complexContent>
                            </complexType>
                        </element>
                        <element name="PhoneLink" minOccurs="0"
maxOccurs="127">
                            <complexType>
                                <complexContent>
                                    <extension
base="mpeg7:SpokenContentLinkType">
                                <attribute name="phone"
type="mpeg7:PhoneLexiconIndexType" use="required"/>
                                    </extension>
                                </complexContent>
                            </complexType>
                        </element>
                    </sequence>
                    <attribute name="num" type="mpeg7:unsigned16"
use="required"/>
                    <attribute name="timeOffset" type="mpeg7:unsigned16"
use="required"/>
                    <attribute name="speakerInfoRef" type="anyURI"
use="optional"/>
                </complexType>
            </element>
        </sequence>
        <attribute name="defaultSpeakerInfoRef" type="anyURI"
use="required"/>
        <attribute name="num" type="mpeg7:unsigned16" use="required"/>
        <attribute name="audio" default="speech">
            <simpleType>
                <restriction base="NMTOKEN">
                    <enumeration value="unknown"/>
                    <enumeration value="speech"/>
                    <enumeration value="noise"/>
                    <enumeration value="noisySpeech"/>
                </restriction>
                <!-- This gives an approximate measure of how noisy the
-->
                <!-- speech signal is with respect to the speech
-->
            </simpleType>
        </attribute>
    </complexType>
</element>
</sequence>
</extension>
</complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of SpokenContentLink datatype (Audio AMD/1)
-->
<!-- ##### -->
<complexType name="SpokenContentLinkType">
    <attribute name="probability" type="mpeg7:zeroToOneType" default="1.0"/>

```

```

    <attribute name="acousticScore" type="mpeg7:nonNegativeReal" use="optional"/>
    <attribute name="nodeOffset" type="mpeg7:unsigned16" default="1"/>
    <!-- New attribute V2 -->
  </complexType>
  <!-- ##### -->
  <!-- Definition of Melody DS -->
  <!-- ##### -->
  <complexType name="MelodyType">
    <complexContent>
      <extension base="mpeg7:AudioDSType">
        <sequence>
          <element name="Meter" type="mpeg7:MeterType" minOccurs="0"/>
          <element name="Scale" type="mpeg7:scaleType" minOccurs="0"/>
          <element name="Key" type="mpeg7:KeyType" minOccurs="0"/>
          <choice>
            <element name="MelodyContour" type="mpeg7:MelodyContourType"/>
            <element name="MelodySequence" type="mpeg7:MelodySequenceType"
maxOccurs="unbounded"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
  <!-- ##### -->
  <!-- Definition of MelodyContour DS -->
  <!-- ##### -->
  <complexType name="MelodyContourType">
    <complexContent>
      <extension base="mpeg7:AudioDSType">
        <sequence>
          <element name="Contour" type="mpeg7:contourType"/>
          <element name="Beat" type="mpeg7:beatType"/>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
  <!-- ##### -->
  <!-- Definition of Meter D -->
  <!-- ##### -->
  <complexType name="MeterType">
    <complexContent>
      <extension base="mpeg7:AudioDType">
        <sequence>
          <element name="Numerator">
            <simpleType>
              <restriction base="integer">
                <minInclusive value="1"/>
                <maxInclusive value="128"/>
              </restriction>
            </simpleType>
          </element>
          <element name="Denominator">
            <simpleType>
              <restriction base="integer">
                <enumeration value="1"/>
                <enumeration value="2"/>
                <enumeration value="4"/>
                <enumeration value="8"/>
                <enumeration value="16"/>
                <enumeration value="32"/>
              </restriction>
            </simpleType>
          </element>
        </sequence>
      </extension>
    </complexContent>
  </complexType>

```

```

        <enumeration value="64"/>
        <enumeration value="128"/>
    </restriction>
</simpleType>
</element>
</sequence>
</extension>
</complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of contour datatype -->
<!-- ##### -->
<simpleType name="contourType">
    <list>
        <simpleType>
            <restriction base="integer">
                <minInclusive value="-2"/>
                <maxInclusive value="+2"/>
            </restriction>
        </simpleType>
    </list>
</simpleType>
<!-- ##### -->
<!-- Definition of beat datatype -->
<!-- ##### -->
<simpleType name="beatType">
    <list itemType="integer"/>
</simpleType>
<!-- ##### -->
<!-- Definition of Scale datatype -->
<!-- ##### -->
<!-- Information about a scale -->
<!-- array of a repeatable span of notes, in semitones from base pitch -->
<simpleType name="scaleType">
    <restriction base="mpeg7:floatVector"/>
</simpleType>
<!-- ##### -->
<!-- Definition of MelodyKey DS -->
<!-- ##### -->
<!-- Information about the key -->
<complexType name="KeyType">
    <complexContent>
        <extension base="mpeg7:AudioDSType">
            <sequence>
                <element name="KeyNote">
                    <complexType>
                        <simpleContent>
                            <extension base="mpeg7:degreeNoteType">
                                <attribute name="display" type="string" use="optional"/>
                            </extension>
                        </simpleContent>
                    </complexType>
                </element>
            </sequence>
            <attribute name="accidental" type="mpeg7:degreeAccidentalType"
default="natural"/>
            <attribute name="mode" type="mpeg7:termReferenceType" use="optional"/>
        </extension>
    </complexContent>
</complexType>

```

```

<simpleType name="degreeNoteType">
  <restriction base="string">
    <enumeration value="C"/>
    <enumeration value="D"/>
    <enumeration value="E"/>
    <enumeration value="F"/>
    <enumeration value="G"/>
    <enumeration value="A"/>
    <enumeration value="B"/>
  </restriction>
</simpleType>
<simpleType name="degreeAccidentalType">
  <restriction base="string">
    <enumeration value="flat"/>
    <enumeration value="natural"/>
    <enumeration value="sharp"/>
    <enumeration value="doubleSharp"/>
    <enumeration value="doubleFlat"/>
  </restriction>
</simpleType>
<!-- ##### -->
<!-- Definition of MelodySequence DS -->
<!-- ##### -->
<complexType name="MelodySequenceType">
  <complexContent>
    <extension base="mpeg7:AudioDSType">
      <sequence>
        <element name="StartingNote" minOccurs="0">
          <complexType>
            <sequence>
              <element name="StartingFrequency" type="float"
minOccurs="0"/>
              <element name="StartingPitch" minOccurs="0">
                <complexType>
                  <sequence>
                    <element name="PitchNote">
                      <complexType>
                        <simpleContent>
                          <extension
base="mpeg7:degreeNoteType">
                            <attribute name="display"
type="string" use="optional"/>
                        </extension>
                      </simpleContent>
                    </complexType>
                  </sequence>
                  <attribute name="accidental"
type="mpeg7:degreeAccidentalType" default="natural"/>
                  <attribute name="height" type="integer"
use="optional"/>
                </complexType>
              </element>
            </sequence>
          </complexType>
        </element>
      </sequence>
      <element name="NoteArray" maxOccurs="unbounded">
        <complexType>
          <complexContent>
            <extension base="mpeg7:AudioDSType">

```

```

        <sequence>
            <element name="Note" maxOccurs="unbounded">
                <complexType>
                    <sequence>
                        <element name="Interval" type="float"/>
                        <element name="NoteRelDuration"
type="float"/>
                        <element name="Lyric"
type="mpeg7:TextualType" minOccurs="0"/>
                    </sequence>
                </complexType>
            </element>
        </sequence>
    </extension>
</complexContent>
</complexType>
</element>
</sequence>
</extension>
</complexContent>
</complexType>
<!-- *****-->
<!-- ***** ISO/IEC 15938-3 Audio AMD/1 *****-->
<!-- *****-->
<!-- *****-->
<!-- #####-->
<!-- Definition of AudioSignalQuality DS AMD/1 -->
<!-- #####-->
<complexType name="AudioSignalQualityType">
    <complexContent>
        <extension base="mpeg7:AudioDSType">
            <sequence>
                <!-- Summaries-->
                <element name="Operator" type="mpeg7:PersonType" minOccurs="0"/>
                <element name="UsedTool" type="mpeg7:CreationToolType" minOccurs="0"/>
                <element name="BackgroundNoiseLevel"
type="mpeg7:BackgroundNoiseLevelType"/>
                <element name="RelativeDelay" type="mpeg7:RelativeDelayType"/>
                <element name="Balance" type="mpeg7:BalanceType"/>
                <element name="DcOffset" type="mpeg7:DcOffsetType"/>
                <element name="CrossChannelCorrelation"
type="mpeg7:CrossChannelCorrelationType"/>
                <element name="Bandwidth" type="mpeg7:BandwidthType"/>
                <!-- High Level Feature-->
                <element name="TransmissionTechnology"
type="mpeg7:TransmissionTechnologyType" minOccurs="0"/>
                <!-- Events-->
                <element name="ErrorEventList" minOccurs="0">
                    <complexType>
                        <sequence>
                            <element name="ErrorEvent" type="mpeg7:ErrorEventType"
minOccurs="0" maxOccurs="unbounded"/>
                        </sequence>
                    </complexType>
                </element>
            </sequence>
            <attribute name="IsOriginalMono" type="boolean"/>
            <attribute name="BroadcastReady" type="boolean" use="optional"/>
        </extension>
    </complexType>
    <!-- Attributes-->

```

```

        </complexContent>
    </complexType>
    <!-- ##### -->
    <!-- Definition of BackgroundNoiseLevel D -->
    <!-- ##### -->
    <complexType name="BackgroundNoiseLevelType">
        <complexContent>
            <extension base="mpeg7:AudioLLDVectorType"/>
        </complexContent>
    </complexType>
    <!-- ##### -->
    <!-- Definition of CrossChannelCorrelation D -->
    <!-- ##### -->
    <complexType name="CrossChannelCorrelationType">
        <complexContent>
            <extension base="mpeg7:AudioLLDVectorType"/>
        </complexContent>
    </complexType>
    <!-- ##### -->
    <!-- Definition of RelativeDelay D -->
    <!-- ##### -->
    <complexType name="RelativeDelayType">
        <complexContent>
            <extension base="mpeg7:AudioLLDVectorType">
                <attribute name="Reliability" type="mpeg7:zeroToOneType" use="optional"/>
            </extension>
        </complexContent>
    </complexType>
    <!-- ##### -->
    <!-- Definition of Balance D -->
    <!-- ##### -->
    <complexType name="BalanceType">
        <complexContent>
            <extension base="mpeg7:AudioLLDVectorType"/>
        </complexContent>
    </complexType>
    <!-- ##### -->
    <!-- Definition of DcOffset D -->
    <!-- ##### -->
    <complexType name="DcOffsetType">
        <complexContent>
            <extension base="mpeg7:AudioLLDVectorType"/>
        </complexContent>
    </complexType>
    <!-- ##### -->
    <!-- Definition of Bandwidth D -->
    <!-- ##### -->
    <complexType name="BandwidthType">
        <complexContent>
            <extension base="mpeg7:AudioLLDVectorType"/>
        </complexContent>
    </complexType>
    <!-- ##### -->
    <!-- Definition of Transmission Technology Type -->
    <!-- ##### -->
    <complexType name="TransmissionTechnologyType">
        <complexContent>
            <extension base="mpeg7:ControlledTermUseType"/>
        </complexContent>
    </complexType>

```

```

<!-- ##### -->
<!-- Definition of ErrorEvent DS -->
<!-- ##### -->
<complexType name="ErrorEventType">
  <complexContent>
    <extension base="mpeg7:AudioDSType">
      <sequence>
        <element name="ErrorClass" type="mpeg7:ControlledTermUseType"/>
        <element name="ChannelNo" type="positiveInteger"/>
        <element name="TimeStamp" type="mpeg7:MediaTimeType"/>
        <element name="Relevance" type="mpeg7:unsigned4"/>
        <element name="DetectionProcess">
          <simpleType>
            <restriction base="string">
              <enumeration value="manual"/>
              <enumeration value="automatic"/>
            </restriction>
          </simpleType>
        </element>
        <element name="Status">
          <simpleType>
            <restriction base="string">
              <enumeration value="undefined"/>
              <enumeration value="checked"/>
              <enumeration value="needs restoration"/>
              <enumeration value="restored"/>
              <enumeration value="deleted"/>
            </restriction>
          </simpleType>
        </element>
        <element name="Comment" type="mpeg7:TextAnnotationType"/>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of Audio Tempo DS -->
<!-- ##### -->
<complexType name="AudioTempoType">
  <complexContent>
    <extension base="mpeg7:AudioDSType">
      <sequence>
        <element name="BPM" type="mpeg7:AudioBPMType"/>
        <element name="Meter" type="mpeg7:MeterType" minOccurs="0"/>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of AudioBPMType -->
<!-- ##### -->
<complexType name="AudioBPMType">
  <complexContent>
    <extension base="mpeg7:AudioLLDScalarType">
      <attribute name="loLimit" type="float" use="optional"/>
      <attribute name="hiLimit" type="float" use="optional"/>
    </extension>
  </complexContent>
</complexType>
<!-- ***** -->

```



```

<!-- ***** ISO/IEC 15938-5 MDS *****-->
<!-- *****-->
<annotation>
  <documentation>
    This section contains MDS tools defined in ISO/IEC 15938-5
  </documentation>
</annotation>
<!-- ##### -->
<!-- Definition of MPEG-7 Base types (4.2) -->
<!-- ##### -->
<!-- Definition of MPEG-7 base type -->
<complexType name="Mpeg7BaseType" abstract="true">
  <complexContent>
    <restriction base="anyType"/>
  </complexContent>
</complexType>
<!-- Definition of generic D -->
<complexType name="DType" abstract="true">
  <complexContent>
    <extension base="mpeg7:Mpeg7BaseType"/>
  </complexContent>
</complexType>
<!-- Definition of generic DS -->
<complexType name="DSType" abstract="true">
  <complexContent>
    <extension base="mpeg7:Mpeg7BaseType">
      <sequence>
        <element name="Header" type="mpeg7:HeaderType" minOccurs="0"
maxOccurs="unbounded"/>
      </sequence>
      <attribute name="id" type="ID" use="optional"/>
      <attributeGroup ref="mpeg7:mediaTimePropertyGrp"/>
    </extension>
  </complexContent>
</complexType>
<!-- Definition of Visual D -->
<complexType name="VisualDType" abstract="true">
  <complexContent>
    <extension base="mpeg7:DType"/>
  </complexContent>
</complexType>
<!-- Definition of Audio D (MDS AMD/1) -->
<complexType name="AudioDType" abstract="true">
  <complexContent>
    <extension base="mpeg7:DType">
      <attribute name="channels" type="mpeg7:integerVector" use="optional"/>
    </extension>
  </complexContent>
</complexType>
<!-- Definition of Visual DS -->
<complexType name="VisualDSType" abstract="true">
  <complexContent>
    <extension base="mpeg7:DSType"/>
  </complexContent>
</complexType>
<!-- Definition of Audio DS (MDS AMD/1) -->
<complexType name="AudioDSType" abstract="true">
  <complexContent>
    <extension base="mpeg7:DSType">
      <attribute name="channels" type="mpeg7:integerVector" use="optional"/>
    </extension>
  </complexContent>
</complexType>

```

```

        </extension>
    </complexContent>
</complexType>
<!-- Definition of Header datatype -->
<complexType name="HeaderType" abstract="true">
    <complexContent>
        <extension base="mpeg7:Mpeg7BaseType">
            <attribute name="id" type="ID" use="optional"/>
        </extension>
    </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of MPEG-7 root element (4.3) (COR/1) -->
<!-- ##### -->
<!-- Definition of Mpeg7 Type (COR/1) -->
<complexType name="Mpeg7Type" abstract="true">
    <sequence>
        <element name="DescriptionProfile" type="mpeg7:DescriptionProfileType"
minOccurs="1"/>
        <element name="DescriptionMetadata" type="mpeg7:DescriptionMetadataType"
minOccurs="1"/>
    </sequence>
</complexType>
<!-- Definition of DescriptionProfileType (COR/1) -->
<complexType name="DescriptionProfileType">
    <attribute name="profileAndLevelIndication" use="required">
        <simpleType>
            <list itemType="anyURI"/>
        </simpleType>
    </attribute>
</complexType>
<!-- Definition of Mpeg7 Element (COR/1) -->
<element name="Mpeg7">
    <complexType>
        <complexContent>
            <extension base="mpeg7:Mpeg7Type">
                <sequence>
                    <element name="Description" type="mpeg7:CompleteDescriptionType"
maxOccurs="unbounded"/>
                </sequence>
            </extension>
        </complexContent>
    </complexType>
</element>
<!-- ##### -->
<!-- Definition of Complete description top-level types (4.4.2) -->
<!-- ##### -->
<!-- Definition of CompleteDescription Top-level Type -->
<complexType name="CompleteDescriptionType" abstract="true">
    <sequence>
        <!--
        <element name="DescriptionMetadata" type="mpeg7:DescriptionMetadataType"
minOccurs="0"/>
        -->
    </sequence>
</complexType>
<!-- ##### -->
<!-- Definition of Content description top-level types (4.4.3) -->
<!-- ##### -->
<!-- Definition of ContentDescription Top-level Type -->

```

```

<complexType name="ContentDescriptionType" abstract="true">
  <complexContent>
    <extension base="mpeg7:CompleteDescriptionType">
      <sequence/>
    </extension>
  </complexContent>
</complexType>
<!-- Definition of ContentEntity Top-level Type -->
<complexType name="ContentEntityType">
  <complexContent>
    <extension base="mpeg7:ContentDescriptionType">
      <sequence>
        <element name="MultimediaContent" type="mpeg7:MultimediaContentType"/>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<!-- Definition of ContentAbstraction Top-level Type -->
<complexType name="ContentAbstractionType" abstract="true">
  <complexContent>
    <extension base="mpeg7:ContentDescriptionType"/>
  </complexContent>
</complexType>
<!-- Definition of SummaryDescription Top-level Type -->
<complexType name="SummaryDescriptionType">
  <complexContent>
    <extension base="mpeg7:ContentAbstractionType">
      <sequence>
        <element name="Summarization" type="mpeg7:SummarizationType"/>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of Multimedia content entity tools (4.4.5) -->
<!-- ##### -->
<!-- Definition of MultimediaContent Content Entity -->
<complexType name="MultimediaContentType" abstract="true">
  <complexContent>
    <extension base="mpeg7:DSType"/>
  </complexContent>
</complexType>
<!-- Definition of AudioVisual Content Entity -->
<complexType name="AudioVisualType">
  <complexContent>
    <extension base="mpeg7:MultimediaContentType">
      <sequence>
        <element name="AudioVisual" type="mpeg7:AudioVisualSegmentType"/>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of DescriptionMetadata Header (4.5.3) -->
<!-- ##### -->
<!-- Definition of DescriptionMetadata Header -->
<complexType name="DescriptionMetadataType">
  <complexContent>
    <extension base="mpeg7:HeaderType">
      <sequence>

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```

        <element name="Confidence" type="mpeg7:zeroToOneType" minOccurs="0"/>
        <element name="Version" type="string" minOccurs="0"/>
        <element name="LastUpdate" type="mpeg7:timePointType" minOccurs="0"/>
        <element name="Comment" type="mpeg7:TextAnnotationType" minOccurs="0"/>
        <element name="PublicIdentifier" type="mpeg7:UniqueIDType"
minOccurs="0" maxOccurs="unbounded"/>
        <element name="PrivateIdentifier" type="string" minOccurs="0"
maxOccurs="unbounded"/>
        <element name="Creator" type="mpeg7:CreatorType" minOccurs="0"
maxOccurs="unbounded"/>
        <element name="CreationLocation" type="mpeg7:PlaceType" minOccurs="0"/>
        <element name="CreationTime" type="mpeg7:timePointType" minOccurs="0"/>
        <element name="Instrument" type="mpeg7:CreationToolType" minOccurs="0"
maxOccurs="unbounded"/>
        <element name="Rights" type="mpeg7:RightsType" minOccurs="0"/>
    </sequence>
</extension>
</complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of Unsigned datatypes (5.2.2) -->
<!-- ##### -->
<!-- Definition of unsigned1 datatype -->
<simpleType name="unsigned1">
    <restriction base="nonNegativeInteger">
        <minInclusive value="0"/>
        <maxInclusive value="1"/>
    </restriction>
</simpleType>
<!-- Definition of unsigned2 datatype -->
<simpleType name="unsigned2">
    <restriction base="nonNegativeInteger">
        <minInclusive value="0"/>
        <maxInclusive value="3"/>
    </restriction>
</simpleType>
<!-- Definition of unsigned3 datatype -->
<simpleType name="unsigned3">
    <restriction base="nonNegativeInteger">
        <minInclusive value="0"/>
        <maxInclusive value="7"/>
    </restriction>
</simpleType>
<!-- Definition of unsigned4 datatype -->
<simpleType name="unsigned4">
    <restriction base="nonNegativeInteger">
        <minInclusive value="0"/>
        <maxInclusive value="15"/>
    </restriction>
</simpleType>
<!-- Definition of unsigned5 datatype -->
<simpleType name="unsigned5">
    <restriction base="nonNegativeInteger">
        <minInclusive value="0"/>
        <maxInclusive value="31"/>
    </restriction>
</simpleType>
<!-- Definition of unsigned6 datatype -->
<simpleType name="unsigned6">
    <restriction base="nonNegativeInteger">

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```

        <minInclusive value="0"/>
        <maxInclusive value="63"/>
    </restriction>
</simpleType>
<!-- Definition of unsigned7 datatype -->
<simpleType name="unsigned7">
    <restriction base="nonNegativeInteger">
        <minInclusive value="0"/>
        <maxInclusive value="127"/>
    </restriction>
</simpleType>
<!-- Definition of unsigned8 datatype -->
<simpleType name="unsigned8">
    <restriction base="nonNegativeInteger">
        <minInclusive value="0"/>
        <maxInclusive value="255"/>
    </restriction>
</simpleType>
<!-- Definition of unsigned9 datatype -->
<simpleType name="unsigned9">
    <restriction base="nonNegativeInteger">
        <minInclusive value="0"/>
        <maxInclusive value="511"/>
    </restriction>
</simpleType>
<!-- Definition of unsigned10 datatype -->
<simpleType name="unsigned10">
    <restriction base="nonNegativeInteger">
        <minInclusive value="0"/>
        <maxInclusive value="1023"/>
    </restriction>
</simpleType>
<!-- Definition of unsigned11 datatype -->
<simpleType name="unsigned11">
    <restriction base="nonNegativeInteger">
        <minInclusive value="0"/>
        <maxInclusive value="2047"/>
    </restriction>
</simpleType>
<!-- Definition of unsigned12 datatype -->
<simpleType name="unsigned12">
    <restriction base="nonNegativeInteger">
        <minInclusive value="0"/>
        <maxInclusive value="4095"/>
    </restriction>
</simpleType>
<!-- Definition of unsigned13 datatype -->
<simpleType name="unsigned13">
    <restriction base="nonNegativeInteger">
        <minInclusive value="0"/>
        <maxInclusive value="8191"/>
    </restriction>
</simpleType>
<!-- Definition of unsigned14 datatype -->
<simpleType name="unsigned14">
    <restriction base="nonNegativeInteger">
        <minInclusive value="0"/>
        <maxInclusive value="16383"/>
    </restriction>
</simpleType>

```

```

<!-- Definition of unsigned15 datatype -->
<simpleType name="unsigned15">
  <restriction base="nonNegativeInteger">
    <minInclusive value="0"/>
    <maxInclusive value="32767"/>
  </restriction>
</simpleType>
<!-- Definition of unsigned16 datatype -->
<simpleType name="unsigned16">
  <restriction base="nonNegativeInteger">
    <minInclusive value="0"/>
    <maxInclusive value="65535"/>
  </restriction>
</simpleType>
<!-- Definition of unsigned17 datatype -->
<simpleType name="unsigned17">
  <restriction base="nonNegativeInteger">
    <minInclusive value="0"/>
    <maxInclusive value="131071"/>
  </restriction>
</simpleType>
<!-- Definition of unsigned18 datatype -->
<simpleType name="unsigned18">
  <restriction base="nonNegativeInteger">
    <minInclusive value="0"/>
    <maxInclusive value="262143"/>
  </restriction>
</simpleType>
<!-- Definition of unsigned19 datatype -->
<simpleType name="unsigned19">
  <restriction base="nonNegativeInteger">
    <minInclusive value="0"/>
    <maxInclusive value="524287"/>
  </restriction>
</simpleType>
<!-- Definition of unsigned20 datatype -->
<simpleType name="unsigned20">
  <restriction base="nonNegativeInteger">
    <minInclusive value="0"/>
    <maxInclusive value="1048575"/>
  </restriction>
</simpleType>
<!-- Definition of unsigned21 datatype -->
<simpleType name="unsigned21">
  <restriction base="nonNegativeInteger">
    <minInclusive value="0"/>
    <maxInclusive value="2097151"/>
  </restriction>
</simpleType>
<!-- Definition of unsigned22 datatype -->
<simpleType name="unsigned22">
  <restriction base="nonNegativeInteger">
    <minInclusive value="0"/>
    <maxInclusive value="4194303"/>
  </restriction>
</simpleType>
<!-- Definition of unsigned23 datatype -->
<simpleType name="unsigned23">
  <restriction base="nonNegativeInteger">
    <minInclusive value="0"/>

```

```

        <maxInclusive value="8388607"/>
      </restriction>
    </simpleType>
    <!-- Definition of unsigned24 datatype -->
    <simpleType name="unsigned24">
      <restriction base="nonNegativeInteger">
        <minInclusive value="0"/>
        <maxInclusive value="16777215"/>
      </restriction>
    </simpleType>
    <!-- Definition of unsigned25 datatype -->
    <simpleType name="unsigned25">
      <restriction base="nonNegativeInteger">
        <minInclusive value="0"/>
        <maxInclusive value="33554431"/>
      </restriction>
    </simpleType>
    <!-- Definition of unsigned26 datatype -->
    <simpleType name="unsigned26">
      <restriction base="nonNegativeInteger">
        <minInclusive value="0"/>
        <maxInclusive value="67108863"/>
      </restriction>
    </simpleType>
    <!-- Definition of unsigned27 datatype -->
    <simpleType name="unsigned27">
      <restriction base="nonNegativeInteger">
        <minInclusive value="0"/>
        <maxInclusive value="134217727"/>
      </restriction>
    </simpleType>
    <!-- Definition of unsigned28 datatype -->
    <simpleType name="unsigned28">
      <restriction base="nonNegativeInteger">
        <minInclusive value="0"/>
        <maxInclusive value="268435455"/>
      </restriction>
    </simpleType>
    <!-- Definition of unsigned29 datatype -->
    <simpleType name="unsigned29">
      <restriction base="nonNegativeInteger">
        <minInclusive value="0"/>
        <maxInclusive value="536870911"/>
      </restriction>
    </simpleType>
    <!-- Definition of unsigned30 datatype -->
    <simpleType name="unsigned30">
      <restriction base="nonNegativeInteger">
        <minInclusive value="0"/>
        <maxInclusive value="1073741823"/>
      </restriction>
    </simpleType>
    <!-- Definition of unsigned31 datatype -->
    <simpleType name="unsigned31">
      <restriction base="nonNegativeInteger">
        <minInclusive value="0"/>
        <maxInclusive value="2147483647"/>
      </restriction>
    </simpleType>
    <!-- Definition of unsigned32 datatype -->

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<simpleType name="unsigned32">
  <restriction base="nonNegativeInteger">
    <minInclusive value="0"/>
    <maxInclusive value="4294967295"/>
  </restriction>
</simpleType>
<!-- ##### -->
<!-- Definition of zeroToOne datatype (5.3.2) -->
<!-- ##### -->
<!-- Definition of zeroToOne datatype -->
<simpleType name="zeroToOneType">
  <restriction base="float">
    <minInclusive value="0.0"/>
    <maxInclusive value="1.0"/>
  </restriction>
</simpleType>
<!-- ##### -->
<!-- Definition of minusOneToOne datatype (5.3.3) -->
<!-- ##### -->
<!-- Definition of minusOneToOne datatype -->
<simpleType name="minusOneToOneType">
  <restriction base="float">
    <minInclusive value="-1.0"/>
    <maxInclusive value="+1.0"/>
  </restriction>
</simpleType>
<!-- ##### -->
<!-- Definition of nonNegativeReal datatype (5.3.4) -->
<!-- ##### -->
<!-- Definition of nonNegativeReal datatype -->
<simpleType name="nonNegativeReal">
  <restriction base="double">
    <minInclusive value="0.0"/>
  </restriction>
</simpleType>
<!-- ##### -->
<!-- Definition of vector datatypes (5.4.2) -->
<!-- ##### -->
<!-- Definition of integerVector datatype -->
<simpleType name="integerVector">
  <list itemType="integer"/>
</simpleType>
<!-- Definition of floatVector datatype -->
<simpleType name="floatVector">
  <list itemType="float"/>
</simpleType>
<!-- Definition of doubleVector datatype -->
<simpleType name="doubleVector">
  <list itemType="double"/>
</simpleType>
<!-- ##### -->
<!-- Definition of minusOneToOneVector datatype (5.4.3) -->
<!-- ##### -->
<!-- Definition of minusOneToOneVector datatype -->
<simpleType name="minusOneToOneVector">
  <list>
    <simpleType>
      <restriction base="float">
        <minInclusive value="-1.0"/>
        <maxInclusive value="1.0"/>
      </restriction>
    </simpleType>
  </list>
</simpleType>

```



```

        </restriction>
    </simpleType>
</list>
</simpleType>
<!-- ##### -->
<!-- Definition of Matrix datatypes (5.4.4) -->
<!-- ##### -->
<!-- Definition of IntegerMatrix datatype -->
<complexType name="IntegerMatrixType">
    <simpleContent>
        <extension base="mpeg7:integerVector">
            <attribute ref="mpeg7:dim" use="required"/>
        </extension>
    </simpleContent>
</complexType>
<!-- Definition of FloatMatrix datatype -->
<complexType name="FloatMatrixType">
    <simpleContent>
        <extension base="mpeg7:floatVector">
            <attribute ref="mpeg7:dim" use="required"/>
        </extension>
    </simpleContent>
</complexType>
<!-- Definition of DoubleMatrix datatype -->
<complexType name="DoubleMatrixType">
    <simpleContent>
        <extension base="mpeg7:doubleVector">
            <attribute ref="mpeg7:dim" use="required"/>
        </extension>
    </simpleContent>
</complexType>
<!-- ##### -->
<!-- Definition of DiagonalMatrix datatypes (5.4.5) -->
<!-- ##### -->
<!-- Definition of IntegerDiagonalMatrix datatype -->
<complexType name="IntegerDiagonalMatrixType">
    <simpleContent>
        <extension base="mpeg7:integerVector">
            <attribute ref="mpeg7:dim" use="required"/>
        </extension>
    </simpleContent>
</complexType>
<!-- Definition of FloatDiagonalMatrix datatype -->
<complexType name="FloatDiagonalMatrixType">
    <simpleContent>
        <extension base="mpeg7:floatVector">
            <attribute ref="mpeg7:dim" use="required"/>
        </extension>
    </simpleContent>
</complexType>
<!-- Definition of DoubleDiagonalMatrix datatype -->
<complexType name="DoubleDiagonalMatrixType">
    <simpleContent>
        <extension base="mpeg7:doubleVector">
            <attribute ref="mpeg7:dim" use="required"/>
        </extension>
    </simpleContent>
</complexType>
<!-- ##### -->
<!-- Definition of MinusOneToOneMatrix datatype (5.4.6) -->

```

```

<!-- ##### -->
<!-- Definition of MinusOneToOneMatrix datatype -->
<complexType name="MinusOneToOneMatrixType">
  <simpleContent>
    <extension base="mpeg7:minusOneToOneVector">
      <attribute ref="mpeg7:dim" use="required"/>
    </extension>
  </simpleContent>
</complexType>
<!-- ##### -->
<!-- Definition of probabilityVector datatype (5.5.2) -->
<!-- ##### -->
<!-- Definition of probabilityVector datatype -->
<simpleType name="probabilityVector">
  <list>
    <simpleType>
      <restriction base="float">
        <minInclusive value="0.0"/>
        <maxInclusive value="1.0"/>
      </restriction>
    </simpleType>
  </list>
</simpleType>
<!-- ##### -->
<!-- Definition of ProbabilityMatrix datatype (5.5.3) -->
<!-- ##### -->
<!-- Definition of probabilityMatrix datatype -->
<complexType name="ProbabilityMatrixType">
  <simpleContent>
    <extension base="mpeg7:probabilityVector">
      <attribute ref="mpeg7:dim" use="required"/>
    </extension>
  </simpleContent>
</complexType>
<!-- ##### -->
<!-- Definition of mimeType datatype (5.6.2) -->
<!-- ##### -->
<simpleType name="mimeType">
  <restriction base="string">
    <whiteSpace value="collapse"/>
    <pattern value="([&#x21;-&#x7f;-[\(\)&lt;&gt;@,;:\\"/\[\]\?]=]]+/([&#x21;-&#x7f;-[\(\)&lt;&gt;@,;:\\"/\[\]\?]=]]+/'>
  </restriction>
</simpleType>
<!-- ##### -->
<!-- Definition of countryCode datatype (5.6.3) -->
<!-- ##### -->
<!-- Definition of countryCode datatype -->
<simpleType name="countryCode">
  <restriction base="string">
    <whiteSpace value="collapse"/>
    <pattern value="[a-zA-Z]{2}"/>
  </restriction>
</simpleType>
<!-- ##### -->
<!-- Definition of regionCode datatype (5.6.4) -->
<!-- ##### -->
<!-- Definition of regionCode datatype -->
<simpleType name="regionCode">
  <restriction base="string">

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        <whiteSpace value="collapse"/>
        <pattern value="[a-zA-Z]{2}(-[a-zA-Z0-9]{1,3})?" />
    </restriction>
</simpleType>
<!-- ##### -->
<!-- Definition of currencyCode datatype (5.6.5) -->
<!-- ##### -->
<!-- Definition of currencyCode datatype -->
<simpleType name="currencyCode">
    <restriction base="string">
        <whiteSpace value="collapse"/>
        <pattern value="[a-zA-Z]{3}" />
    </restriction>
</simpleType>
<!-- ##### -->
<!-- Definition of characterSetCode datatype (5.6.6) -->
<!-- ##### -->
<!-- Definition of characterSetCode datatype -->
<simpleType name="characterSetCode">
    <restriction base="string"/>
</simpleType>
<!-- ##### -->
<!-- Definition of Reference datatypes (6.2.1) -->
<!-- ##### -->
<!-- Definition of referenceGrp attribute group -->
<attributeGroup name="referenceGrp">
    <attribute name="xpath" type="mpeg7:xPathRefType" use="optional"/>
</attributeGroup>
<!-- Definition of Reference datatype -->
<complexType name="ReferenceType">
    <attributeGroup ref="mpeg7:referenceGrp"/>
</complexType>
<!-- ##### -->
<!-- Definition of xPath datatypes (6.2.2) -->
<!-- ##### -->
<!-- Definition of xPath datatype -->
<simpleType name="XPathType">
    <restriction base="token"/>
</simpleType>
<!-- Definition of XPathRef datatype -->
<simpleType name="XPathRefType">
    <restriction base="mpeg7:xPathType">
        <pattern
value="/(?(((child:)?((\i\c*)?(\i\c*) (\[\d+\]))))|\.|(\.\.))/*(((child:)?((\i\c*)?(\i\c*) (\[\d+\])))|\.)|((attribute::|@)((\i\c*)?(\i\c*|*)))))"/>
    </restriction>
</simpleType>
<!-- Definition of XPathSelector datatype -->
<simpleType name="XPathSelectorType">
    <restriction base="mpeg7:xPathType">
        <pattern
value="(/(|((//|/)?(((child:)?((\i\c*)?(\i\c*|*))|\.|(\.\.)) ((//|/)?(((child:)?((\i\c*)?(\i\c*|*))|\.|(\.\.))*)|(|/|((//|/)?(((child:)?((\i\c*)?(\i\c*|*))|\.|(\.\.)) ((//|/)?((child:)?((\i\c*)?(\i\c*|*))|\.|(\.\.))*)*)*)"/>
    </restriction>
</simpleType>
<!-- Definition of XPathAbsoluteSelector datatype -->
<simpleType name="XPathAbsoluteSelectorType">
    <restriction base="mpeg7:xPathSelectorType">

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<pattern
value="(/(|(((//|/) (((child::)?((\i\c*:)?(\i\c*|\*)))\|.))* (\| (/| ((//|/) (((child::)?((\i\c*:)?(\i\c*|\*)))\|.))*))*)**"/>
</restriction>
</simpleType>
<!-- Definition of XPathField datatype -->
<simpleType name="XPathFieldType">
<restriction base="mpeg7:xPathType">
<pattern
value="(\./)/?((((child::)?((\i\c*:)?(\i\c*|\*)))\|.)/)*((((child::)?((\i\c*:)?(\i\c*|\*)))\|.)|((attribute::|@)((\i\c*:)?(\i\c*|\*)))(\|(\./)/?((((child::)?((\i\c*:)?(\i\c*|\*)))\|.)/)*((((child::)?((\i\c*:)?(\i\c*|\*)))\|.)|((attribute::|@)((\i\c*:)?(\i\c*|\*)))))**"/>
</restriction>
</simpleType>
<!-- ##### -->
<!-- Definition of UniqueID datatype (6.3.1) -->
<!-- ##### -->
<!-- Definition of UniqueID datatype -->
<complexType name="UniqueIDType">
<simpleContent>
<extension base="string">
<attribute name="type" type="NMTOKEN" use="optional" default="URI"/>
<attribute name="organization" type="NMTOKEN" use="optional"/>
<attribute name="authority" type="NMTOKEN" use="optional"/>
<attribute name="encoding" use="optional" default="text">
<simpleType>
<restriction base="string">
<enumeration value="text"/>
<enumeration value="base16"/>
<enumeration value="base64"/>
</restriction>
</simpleType>
</attribute>
</extension>
</simpleContent>
</complexType>
<!-- ##### -->
<!-- Definition of Time datatype (6.4.2) -->
<!-- ##### -->
<!-- Definition of Time datatype -->
<complexType name="TimeType">
<sequence>
<sequence>
<element name="TimePoint" type="mpeg7:timePointType"/>
</sequence>
<sequence minOccurs="0">
<element name="Duration" type="mpeg7:durationType"/>
</sequence>
</sequence>
</complexType>
<!-- ##### -->
<!-- Definition of timePoint datatype (6.4.3) -->
<!-- ##### -->
<!-- Definition of timePoint datatype -->
<simpleType name="timePointType">
<restriction base="mpeg7:basicTimePointType">
<pattern value="(\-?\d+(\-\d{2}(\-\d{2})?)?(T\d{2}(:\d{2}(:\d+)?)?)?(F\d+)?((\-|\+)\d{2}:\d{2}))?"/>
</restriction>
```

```

</simpleType>
<!-- ##### -->
<!-- Definition of duration datatype (6.4.4) -->
<!-- ##### -->
<!-- Definition of duration datatype -->
<simpleType name="durationType">
  <restriction base="mpeg7:basicDurationType">
    <pattern value="\-?P(\d+D)?(T(\d+H)?(\d+M)?(\d+S)?(\d+N)?)(\d+F)?((\d+
|+)\d{2}:\d{2}Z)?"/>
  </restriction>
</simpleType>
<!-- ##### -->
<!-- Definition of MediaTime datatype (6.4.10) -->
<!-- ##### -->
<!-- Definition of MediaTime datatype -->
<complexType name="MediaTimeType">
  <sequence>
    <sequence>
      <element name="MediaRelIncrTimePoint"
type="mpeg7:MediaRelIncrTimePointType"/>
    </sequence>
    <sequence minOccurs="0">
      <element name="MediaIncrDuration" type="mpeg7:MediaIncrDurationType"/>
    </sequence>
  </sequence>
</complexType>
<!-- ##### -->
<!-- Definition of mediaDuration datatype (6.4.12) -->
<!-- ##### -->
<!-- Definition of mediaDuration datatype -->
<simpleType name="mediaDurationType">
  <restriction base="mpeg7:basicDurationType">
    <pattern value="\-?P(\d+D)?(T(\d+H)?(\d+M)?(\d+S)?(\d+N)?)(\d+F)?"/>
  </restriction>
</simpleType>
<!-- ##### -->
<!-- Definition of MediaIncrDuration datatype (6.4.13) -->
<!-- ##### -->
<!-- Definition of MediaIncrDuration datatype -->
<complexType name="MediaIncrDurationType">
  <simpleContent>
    <extension base="integer"/>
  </simpleContent>
</complexType>
<!-- ##### -->
<!-- Definition of MediaRelIncrTimePoint datatype (6.4.15) -->
<!-- ##### -->
<!-- Definition of MediaRelIncrTimePoint datatype -->
<complexType name="MediaRelIncrTimePointType">
  <simpleContent>
    <extension base="integer"/>
  </simpleContent>
</complexType>
<!-- ##### -->
<!-- Definition of mediaTimeProperty attribute group (6.4.16) -->
<!-- ##### -->
<!-- Definition of mediaTimePropertyGrp attribute group -->
<attributeGroup name="mediaTimePropertyGrp">
  <attribute name="mediaTimeBase" type="mpeg7:xPathRefType" use="optional"/>
  <attribute name="mediaTimeUnit" type="mpeg7:mediaDurationType" use="optional"/>

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</attributeGroup>
<!-- ##### -->
<!-- Definition of MediaLocator datatype (6.5.2) -->
<!-- ##### -->
<!-- Definition of MediaLocator datatype -->
<complexType name="MediaLocatorType">
  <sequence>
    <element name="MediaUri" type="anyURI"/>
    <element name="StreamID" type="nonNegativeInteger" minOccurs="0"/>
  </sequence>
</complexType>
<!-- ##### -->
<!-- Definition of TemporalSegmentLocator datatype (6.5.4) -->
<!-- ##### -->
<!-- Definition of TemporalSegmentLocator datatype -->
<complexType name="TemporalSegmentLocatorType">
  <complexContent>
    <extension base="mpeg7:MediaLocatorType">
      <sequence minOccurs="0">
        <element name="MediaTime" type="mpeg7:MediaTimeType"/>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of ImageLocator datatype (6.5.5) -->
<!-- ##### -->
<!-- Definition of ImageLocator datatype -->
<complexType name="ImageLocatorType">
  <complexContent>
    <extension base="mpeg7:MediaLocatorType">
      <sequence minOccurs="0">
        <element name="MediaRelIncrTimePoint"
type="mpeg7:MediaRelIncrTimePointType"/>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of Textual datatypes (7.3.2) -->
<!-- ##### -->
<!-- Definition of TextualBase datatype -->
<complexType name="TextualBaseType" abstract="true">
  <simpleContent>
    <extension base="string">
      <attribute ref="xml:lang" use="optional"/>
      <attribute name="phoneticTranscription" use="optional">
        <simpleType>
          <list itemType="mpeg7:PhoneType"/>
        </simpleType>
      </attribute>
      <attribute name="phoneticAlphabet" type="mpeg7:phoneticAlphabetType"
use="optional" default="sampa"/>
    </extension>
  </simpleContent>
</complexType>
<!-- Definition of Textual datatype -->
<complexType name="TextualType">
  <simpleContent>
    <extension base="mpeg7:TextualBaseType"/>
  </simpleContent>
</complexType>

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    </simpleContent>
  </complexType>
  <!-- ##### -->
  <!-- Definition of TextAnnotation datatype (7.3.3) -->
  <!-- ##### -->
  <!-- Definition of TextAnnotation datatype -->
  <complexType name="TextAnnotationType">
    <choice maxOccurs="unbounded">
      <element name="FreeTextAnnotation" type="mpeg7:TextualType"/>
      <element name="StructuredAnnotation" type="mpeg7:StructuredAnnotationType"/>
      <element name="KeywordAnnotation" type="mpeg7:KeywordAnnotationType"/>
    </choice>
    <attribute name="relevance" type="mpeg7:zeroToOneType" use="optional"/>
    <attribute name="confidence" type="mpeg7:zeroToOneType" use="optional"/>
    <attribute ref="xml:lang"/>
  </complexType>
  <!-- ##### -->
  <!-- Definition of StructuredAnnotation datatype (7.3.4) -->
  <!-- ##### -->
  <!-- Definition of StructuredAnnotation datatype -->
  <complexType name="StructuredAnnotationType">
    <sequence>
      <element name="Who" type="mpeg7:TermUseType" minOccurs="0"
maxOccurs="unbounded"/>
      <element name="WhatObject" type="mpeg7:TermUseType" minOccurs="0"
maxOccurs="unbounded"/>
      <element name="WhatAction" type="mpeg7:TermUseType" minOccurs="0"
maxOccurs="unbounded"/>
      <element name="Where" type="mpeg7:TermUseType" minOccurs="0"
maxOccurs="unbounded"/>
      <element name="When" type="mpeg7:TermUseType" minOccurs="0"
maxOccurs="unbounded"/>
      <element name="Why" type="mpeg7:TermUseType" minOccurs="0"
maxOccurs="unbounded"/>
      <element name="How" type="mpeg7:TermUseType" minOccurs="0"
maxOccurs="unbounded"/>
    </sequence>
    <attribute ref="xml:lang" use="optional"/>
  </complexType>
  <!-- ##### -->
  <!-- Definition of KeywordAnnotation datatype (7.3.5) -->
  <!-- ##### -->
  <!-- Definition of KeywordAnnotation datatype -->
  <complexType name="KeywordAnnotationType">
    <sequence>
      <element name="Keyword" maxOccurs="unbounded">
        <complexType>
          <simpleContent>
            <extension base="mpeg7:TextualType">
              <attribute name="type" use="optional" default="main">
                <simpleType>
                  <restriction base="NMTOKEN">
                    <enumeration value="main"/>
                    <enumeration value="secondary"/>
                    <enumeration value="other"/>
                  </restriction>
                </simpleType>
              </attribute>
            </extension>
          </simpleContent>
        </complexType>
      </element>
    </sequence>
  </complexType>

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        </complexType>
      </element>
    </sequence>
    <attribute ref="xml:lang" use="optional"/>
  </complexType>
<!-- ##### -->
<!-- Definition of TermDefinition DS (7.4.3) -->
<!-- ##### -->
<!-- Definition of TermDefinitionBase DS -->
<complexType name="TermDefinitionBaseType" abstract="true">
  <complexContent>
    <extension base="mpeg7:DSType">
      <sequence>
        <element name="Name" minOccurs="0" maxOccurs="unbounded">
          <complexType>
            <simpleContent>
              <extension base="mpeg7:TextualType">
                <attribute name="preferred" type="boolean"
use="optional"/>
              </extension>
            </simpleContent>
          </complexType>
        </element>
        <element name="Definition" type="mpeg7:TextualType" minOccurs="0"
maxOccurs="unbounded"/>
      </sequence>
      <attribute name="termID" type="NMTOKEN"/>
    </extension>
  </complexContent>
</complexType>
<!-- Definition of termRelationQualifier datatype -->
<simpleType name="termRelationQualifierType">
  <union>
    <simpleType>
      <restriction base="NMTOKEN">
        <enumeration value="NT"/>
        <enumeration value="BT"/>
        <enumeration value="RT"/>
        <enumeration value="US"/>
        <enumeration value="UF"/>
      </restriction>
    </simpleType>
    <simpleType>
      <restriction base="mpeg7:termAliasReferenceType"/>
    </simpleType>
    <simpleType>
      <restriction base="mpeg7:termURIReferenceType"/>
    </simpleType>
  </union>
</simpleType>
<!-- ##### -->
<!-- Definition of TermUse datatype (7.4.4) -->
<!-- ##### -->
<!-- Definition of InlineTermDefinition datatype -->
<complexType name="InlineTermDefinitionType" abstract="true">
  <sequence>
    <element name="Name" minOccurs="0" maxOccurs="unbounded">
      <complexType>
        <simpleContent>
          <extension base="mpeg7:TextualType">

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        <attribute name="preferred" type="boolean" use="optional"/>
    </extension>
</complexContent>
</complexType>
</element>
</sequence>
</complexType>
<!-- Definition of TermUse datatype -->
<complexType name="TermUseType">
    <complexContent>
        <extension base="mpeg7:InlineTermDefinitionType">
            <attribute name="href" type="mpeg7:termReferenceType" use="optional"/>
        </extension>
    </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of ControlledTermUse datatype (7.4.5) -->
<!-- ##### -->
<!-- Definition of ControlledTermUse datatype -->
<complexType name="ControlledTermUseType">
    <complexContent>
        <extension base="mpeg7:InlineTermDefinitionType">
            <attribute name="href" type="mpeg7:termReferenceType" use="required"/>
        </extension>
    </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of termReferenceType datatype (7.4.6) -->
<!-- ##### -->
<!-- Definition of termReference datatype -->
<simpleType name="termReferenceType">
    <union memberTypes="mpeg7:termAliasReferenceType mpeg7:termURIReferenceType"/>
</simpleType>
<simpleType name="termAliasReferenceType">
    <restriction base="NMTOKEN">
        <whiteSpace value="collapse"/>
        <pattern value=":[^:]+:[^:]+"/>
    </restriction>
</simpleType>
<simpleType name="termURIReferenceType">
    <restriction base="anyURI"/>
</simpleType>
<!-- ##### -->
<!-- Definition of Agent DS (7.5.2) -->
<!-- ##### -->
<!-- Definition of Agent DS -->
<complexType name="AgentType" abstract="true">
    <complexContent>
        <extension base="mpeg7:DSType"/>
    </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of Person DS (7.5.3) (AMD/2) -->
<!-- ##### -->
<!-- Definition of Person DS (AMD/2) -->
<complexType name="PersonType">
    <complexContent>
        <extension base="mpeg7:AgentType">
            <sequence>
                <choice maxOccurs="unbounded">

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        <element name="Name" type="mpeg7:PersonNameType"/>
        <element name="NameTerm" type="mpeg7:ControlledTermUseType"/>
    </choice>
    <element name="Affiliation" minOccurs="0" maxOccurs="unbounded">
        <complexType>
            <choice>
                <element name="Organization" type="mpeg7:OrganizationType"/>
                <element name="PersonGroup" type="mpeg7:PersonGroupType"/>
            </choice>
        </complexType>
    </element>
    <element name="Citizenship" type="mpeg7:countryCode" minOccurs="0"
maxOccurs="unbounded"/>
    <element name="Address" type="mpeg7:PlaceType" minOccurs="0"/>
    <element name="ElectronicAddress" type="mpeg7:ElectronicAddressType"
minOccurs="0" maxOccurs="unbounded"/>
    <element name="PersonDescription" type="mpeg7:TextualType"
minOccurs="0"/>
    <element name="Nationality" type="mpeg7:countryCode" minOccurs="0"/>
</sequence>
</extension>
</complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of PersonGroup DS (7.5.4) -->
<!-- ##### -->
<!-- Definition of PersonGroup DS -->
<complexType name="PersonGroupType">
    <complexContent>
        <extension base="mpeg7:AgentType">
            <sequence>
                <element name="Name" minOccurs="0" maxOccurs="unbounded">
                    <complexType>
                        <simpleContent>
                            <extension base="mpeg7:TextualType">
                                <attribute name="type" use="optional">
                                    <simpleType>
                                        <restriction base="NMTOKEN">
                                            <enumeration value="former"/>
                                            <enumeration value="variant"/>
                                            <enumeration value="main"/>
                                        </restriction>
                                    </simpleType>
                                </attribute>
                            </extension>
                        </simpleContent>
                    </complexType>
                </element>
                <element name="NameTerm" minOccurs="0" maxOccurs="unbounded">
                    <complexType>
                        <complexContent>
                            <extension base="mpeg7:ControlledTermUseType">
                                <attribute name="type" use="optional">
                                    <simpleType>
                                        <restriction base="NMTOKEN">
                                            <enumeration value="former"/>
                                            <enumeration value="variant"/>
                                            <enumeration value="main"/>
                                        </restriction>
                                    </simpleType>
                                </attribute>
                            </extension>
                        </complexContent>
                    </complexType>
                </element>
            </sequence>
        </extension>
    </complexContent>
</complexType>

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        </attribute>
        </extension>
    </complexContent>
</complexType>
</element>
<element name="Kind" type="mpeg7:TermUseType" minOccurs="0"/>
<element name="Member" type="mpeg7:PersonType" minOccurs="0"
maxOccurs="unbounded"/>
    <element name="Address" type="mpeg7:PlaceType" minOccurs="0"/>
    <element name="ElectronicAddress" type="mpeg7:ElectronicAddressType"
minOccurs="0"/>
</sequence>
</extension>
</complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of Organization DS (7.5.5) -->
<!-- ##### -->
<!-- Definition of Organization DS -->
<complexType name="OrganizationType">
    <complexContent>
        <extension base="mpeg7:AgentType">
            <sequence>
                <element name="Name" minOccurs="0" maxOccurs="unbounded">
                    <complexType>
                        <simpleContent>
                            <extension base="mpeg7:TextualType">
                                <attribute name="type" use="optional">
                                    <simpleType>
                                        <restriction base="NMTOKEN">
                                            <enumeration value="former"/>
                                            <enumeration value="variant"/>
                                            <enumeration value="main"/>
                                        </restriction>
                                    </simpleType>
                                </attribute>
                            </extension>
                        </simpleContent>
                    </complexType>
                </element>
                <element name="NameTerm" minOccurs="0" maxOccurs="unbounded">
                    <complexType>
                        <complexContent>
                            <extension base="mpeg7:ControlledTermUseType">
                                <attribute name="type" use="optional">
                                    <simpleType>
                                        <restriction base="NMTOKEN">
                                            <enumeration value="former"/>
                                            <enumeration value="variant"/>
                                            <enumeration value="main"/>
                                        </restriction>
                                    </simpleType>
                                </attribute>
                            </extension>
                        </complexContent>
                    </complexType>
                </element>
                <element name="Kind" type="mpeg7:TermUseType" minOccurs="0"/>
                <element name="Contact" type="mpeg7:AgentType" minOccurs="0"
maxOccurs="unbounded"/>

```

```

        <element name="Address" type="mpeg7:PlaceType" minOccurs="0"/>
        <element name="ElectronicAddress" type="mpeg7:ElectronicAddressType"
minOccurs="0"/>
    </sequence>
</extension>
</complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of PersonName datatype (7.5.6) (AMD/2) -->
<!-- ##### -->
<!-- Definition of PersonName datatype (AMD/2) -->
<complexType name="PersonNameType">
    <sequence>
        <choice maxOccurs="unbounded">
            <element name="GivenName" type="mpeg7:NameComponentType"/>
            <element name="LinkingName" type="mpeg7:NameComponentType" minOccurs="0"/>
            <element name="FamilyName" type="mpeg7:NameComponentType" minOccurs="0"/>
            <element name="Title" type="mpeg7:NameComponentType" minOccurs="0"/>
            <element name="Salutation" type="mpeg7:NameComponentType" minOccurs="0"/>
            <element name="Numeration" type="string" minOccurs="0"/>
        </choice>
    </sequence>
    <attribute name="dateFrom" type="mpeg7:timePointType" use="optional"/>
    <attribute name="dateTo" type="mpeg7:timePointType" use="optional"/>
    <attribute name="type" use="optional">
        <simpleType>
            <restriction base="NMTOKEN">
                <enumeration value="former"/>
                <enumeration value="variant"/>
                <enumeration value="main"/>
            </restriction>
        </simpleType>
    </attribute>
    <attribute ref="xml:lang" use="optional"/>
</complexType>
<!-- Definition of NameComponent datatype -->
<complexType name="NameComponentType">
    <simpleContent>
        <extension base="mpeg7:TextualBaseType">
            <attribute name="initial" type="string" use="optional"/>
            <attribute name="abbrev" type="string" use="optional"/>
        </extension>
    </simpleContent>
</complexType>
<!-- ##### -->
<!-- Definition of ElectronicAddress datatype (7.5.7) (AMD/2) -->
<!-- ##### -->
<!-- Definition of ElectronicAddress datatype (AMD/2) -->
<complexType name="ElectronicAddressType">
    <sequence>
        <element name="Telephone" minOccurs="0" maxOccurs="unbounded">
            <complexType>
                <simpleContent>
                    <extension base="string">
                        <attribute name="type" use="optional">
                            <simpleType>
                                <restriction base="string">
                                    <enumeration value="central"/>
                                    <enumeration value="secondary"/>
                                </restriction>
                            </simpleType>
                        </attribute>
                    </extension>
                </simpleContent>
            </complexType>
        </element>
    </sequence>

```

```

        </simpleType>
      </attribute>
    </extension>
  </simpleContent>
</complexType>
</element>
<element name="Fax" type="string" minOccurs="0" maxOccurs="unbounded"/>
<element name="Email" type="string" minOccurs="0" maxOccurs="unbounded"/>
<element name="Url" type="anyURI" minOccurs="0" maxOccurs="unbounded"/>
</sequence>
</complexType>
<!-- ##### -->
<!-- Definition of Place DS (7.6.2) (AMD/2) -->
<!-- ##### -->
<!-- Definition of Place DS (AMD/2) -->
<complexType name="PlaceType">
  <complexContent>
    <extension base="mpeg7:DSType">
      <sequence>
        <element name="Name" type="mpeg7:TextualType" minOccurs="0"
maxOccurs="unbounded"/>
        <element name="NameTerm" type="mpeg7:ControlledTermUseType"
minOccurs="0" maxOccurs="unbounded"/>
        <element name="PlaceDescription" type="mpeg7:TextualType" minOccurs="0"
maxOccurs="unbounded"/>
        <element name="Role" type="mpeg7:TermUseType" minOccurs="0"/>
        <element name="GeographicPosition" minOccurs="0">
          <complexType>
            <sequence>
              <element name="Point" type="mpeg7:GeographicPointType"/>
            </sequence>
            <attribute name="datum" type="string" use="optional"/>
          </complexType>
        </element>
        <element name="AstronomicalBody" type="mpeg7:TermUseType" minOccurs="0"
maxOccurs="unbounded"/>
        <element name="Region" type="mpeg7:regionCode" minOccurs="0"
maxOccurs="unbounded"/>
        <element name="AdministrativeUnit" minOccurs="0" maxOccurs="unbounded">
          <complexType>
            <simpleContent>
              <extension base="string">
                <attribute name="type" type="string" use="optional"/>
              </extension>
            </simpleContent>
          </complexType>
        </element>
        <choice>
          <element name="PostalAddress" minOccurs="0">
            <complexType>
              <sequence>
                <element name="AddressLine" type="mpeg7:TextualType"
maxOccurs="unbounded"/>
                <element name="PostingIdentifier"
type="mpeg7:TextualType" minOccurs="0"/>
              </sequence>
              <attribute ref="xml:lang" use="optional"/>
            </complexType>
          </element>
          <element name="StructuredPostalAddress" minOccurs="0">

```

```

        <complexType>
          <sequence>
            <element name="StreetNumber" type="string"
minOccurs="0"/>
            <element name="StreetName" type="string" minOccurs="0"/>
            <element name="PostalTown" type="string" minOccurs="0"/>
            <element name="City" type="string" minOccurs="0"/>
            <element name="StateProvinceCounty" type="string"
minOccurs="0"/>
            <element name="Country" type="mpeg7:countryCode"
minOccurs="0"/>
            <element name="PostingIdentifier"
type="mpeg7:TextualType" minOccurs="0"/>
          </sequence>
        </complexType>
      </element>
    </choice>
  <choice>
    <element name="InternalCoordinates" type="string" minOccurs="0"/>
    <element name="StructuredInternalCoordinates" minOccurs="0">
      <complexType>
        <sequence>
          <element name="RoomNumber" type="string" minOccurs="0"/>
          <element name="RoomName" type="string" minOccurs="0"/>
          <element name="BuildingName" type="string"
minOccurs="0"/>
        </sequence>
      </complexType>
    </element>
  </choice>
  <element name="ElectronicAddress" type="mpeg7:ElectronicAddressType"
minOccurs="0" maxOccurs="unbounded"/>
  </sequence>
  <attribute ref="xml:lang" use="optional"/>
</extension>
</complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of GeographicPoint datatype (7.6.3) -->
<!-- ##### -->
<!-- Definition of GeographicPoint datatype -->
<complexType name="GeographicPointType">
  <attribute name="longitude" use="required">
    <simpleType>
      <restriction base="double">
        <minInclusive value="-180.0"/>
        <maxInclusive value="180.0"/>
      </restriction>
    </simpleType>
  </attribute>
  <attribute name="latitude" use="required">
    <simpleType>
      <restriction base="double">
        <minInclusive value="-90.0"/>
        <maxInclusive value="90.0"/>
      </restriction>
    </simpleType>
  </attribute>
  <attribute name="altitude" type="double" use="optional"/>
</complexType>

```

```

<!-- ##### -->
<!-- Definition of Relation DS (7.7.3) (AMD/1) -->
<!-- ##### -->
<complexType name="RelationType">
  <complexContent>
    <extension base="mpeg7:DType">
      <attribute name="type" type="mpeg7:termReferenceListType" use="required"/>
      <attribute name="target" use="required">
        <simpleType>
          <restriction base="mpeg7:termReferenceListType">
            <length value="1"/>
          </restriction>
        </simpleType>
      </attribute>
      <attribute name="directed" type="boolean" use="optional" default="true"/>
      <attribute name="strength" type="mpeg7:zeroToOneType" use="optional"
default="1.0"/>
    </extension>
  </complexContent>
</complexType>
<simpleType name="termReferenceListType">
  <list itemType="mpeg7:termReferenceType"/>
</simpleType>
<!-- ##### -->
<!-- Definition of MediaInformation DS (8.2.1) -->
<!-- ##### -->
<!-- Definition of MediaInformation DS -->
<complexType name="MediaInformationType">
  <complexContent>
    <extension base="mpeg7:DType">
      <sequence>
        <element name="MediaIdentification"
type="mpeg7:MediaIdentificationType" minOccurs="0"/>
        <element name="MediaProfile" type="mpeg7:MediaProfileType"/>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of MediaIdentification D (8.2.2) -->
<!-- ##### -->
<!-- Definition of MediaIdentification D -->
<complexType name="MediaIdentificationType">
  <complexContent>
    <extension base="mpeg7:DType">
      <sequence>
        <element name="EntityIdentifier" type="mpeg7:UniqueIDType"/>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of MediaProfile DS (8.2.3) -->
<!-- ##### -->
<!-- Definition of MediaProfile DS -->
<complexType name="MediaProfileType">
  <complexContent>
    <extension base="mpeg7:DType">
      <sequence>

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        <element name="ComponentMediaProfile" type="mpeg7:MediaProfileType"
minOccurs="0" maxOccurs="unbounded"/>
        <element name="MediaFormat" type="mpeg7:MediaFormatType"
minOccurs="0"/>
        <element name="MediaQuality" type="mpeg7:MediaQualityType"
minOccurs="0"/>
        <element name="MediaInstance" type="mpeg7:MediaInstanceType"
minOccurs="0" maxOccurs="unbounded"/>
    </sequence>
</extension>
</complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of MediaFormat D (8.2.4) -->
<!-- ##### -->
<!-- Definition of MediaFormat D -->
<complexType name="MediaFormatType">
    <complexContent>
        <extension base="mpeg7:DType">
            <sequence>
                <element name="Content" type="mpeg7:ControlledTermUseType"/>
                <element name="FileFormat" type="mpeg7:ControlledTermUseType"
minOccurs="0"/>
                <element name="FileSize" type="nonNegativeInteger" minOccurs="0"/>
                <element name="BitRate" minOccurs="0">
                    <complexType>
                        <simpleContent>
                            <extension base="nonNegativeInteger">
                                <attribute name="variable" type="boolean" use="optional"
default="false"/>
                                <attribute name="minimum" type="nonNegativeInteger"
use="optional"/>
                                <attribute name="average" type="nonNegativeInteger"
use="optional"/>
                                <attribute name="maximum" type="nonNegativeInteger"
use="optional"/>
                            </extension>
                        </simpleContent>
                    </complexType>
                </element>
                <element name="VisualCoding" minOccurs="0">
                    <complexType>
                        <sequence>
                            <element name="Format" minOccurs="0">
                                <complexType>
                                    <complexContent>
                                        <extension base="mpeg7:ControlledTermUseType">
                                            <attribute name="colorDomain" use="optional"
default="color">
                                                <simpleType>
                                                    <union>
                                                        <simpleType>
                                                            <restriction base="NMTOKEN">
                                                                <enumeration
value="binary"/>
                                                                <enumeration
value="color"/>
                                                                <enumeration
value="graylevel"/>

```



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value="colorized"/>
<enumeration
  </restriction>
</simpleType>
<simpleType>
  <restriction
    base="mpeg7:termAliasReferenceType"/>
  </simpleType>
<simpleType>
  <restriction
    base="mpeg7:termURIReferenceType"/>
  </simpleType>
</union>
</simpleType>
</attribute>
</extension>
</complexContent>
</complexType>
</element>
<element name="Pixel" minOccurs="0">
  <complexType>
    <attribute name="resolution"
      type="nonNegativeInteger" use="optional"/>
    <attribute name="aspectRatio"
      type="mpeg7:nonNegativeReal" use="optional"/>
    <attribute name="bitsPer" type="nonNegativeInteger"
      use="optional"/>
  </complexType>
</element>
<element name="Frame" minOccurs="0">
  <complexType>
    <attribute name="height" type="nonNegativeInteger"
      use="optional"/>
    <attribute name="width" type="nonNegativeInteger"
      use="optional"/>
    <attribute name="aspectRatio"
      type="mpeg7:nonNegativeReal" use="optional"/>
    <attribute name="rate" type="mpeg7:nonNegativeReal"
      use="optional"/>
    <attribute name="structure" use="optional">
      <simpleType>
        <restriction base="NMTOKEN">
          <enumeration value="progressive"/>
          <enumeration value="interlaced"/>
        </restriction>
      </simpleType>
    </attribute>
  </complexType>
</element>
<element name="ColorSampling" type="mpeg7:ColorSamplingType"
  minOccurs="0"/>
</sequence>
</complexType>
</element>
<element name="AudioCoding" minOccurs="0">
  <complexType>
    <sequence>
      <element name="Format" type="mpeg7:ControlledTermUseType"
        minOccurs="0"/>
      <element name="AudioChannels" minOccurs="0">

```

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type="nonNegativeInteger" use="optional"/>
    <attribute name="side"
type="nonNegativeInteger" use="optional"/>
    <attribute name="rear"
type="nonNegativeInteger" use="optional"/>
    <attribute name="lfe"
type="nonNegativeInteger" use="optional"/>
    <attribute name="track"
type="nonNegativeInteger" use="optional"/>
    </extension>
    </simpleContent>
  </complexType>
</element>
<element name="Sample" minOccurs="0">
  <complexType>
    <attribute name="rate" type="mpeg7:nonNegativeReal"
use="optional"/>
    <attribute name="bitsPer" type="nonNegativeInteger"
use="optional"/>
  </complexType>
</element>
</sequence>
</complexType>
</element>
</sequence>
</extension>
</complexContent>
</complexType>
<!-- Definition of ColorSampling D -->
<complexType name="ColorSamplingType">
  <complexContent>
    <extension base="mpeg7:DType">
      <sequence>
        <element name="Lattice" minOccurs="0">
          <complexType>
            <attribute name="width" type="positiveInteger" use="required"/>
            <attribute name="height" type="positiveInteger" use="required"/>
          </complexType>
        </element>
        <element name="Field" maxOccurs="unbounded">
          <complexType>
            <sequence>
              <element name="Component" maxOccurs="unbounded">
                <complexType>
                  <complexContent>
                    <extension base="mpeg7:TermUseType">
                      <sequence>
                        <element name="Offset" minOccurs="0">
                          <complexType>

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                                <complexType>
                                    <attribute name="horizontal"
type="mpeg7:nonNegativeReal" use="required"/>
                                    <attribute name="vertical"
type="mpeg7:nonNegativeReal" use="required"/>
                                </complexType>
                            </element>
                        </sequence>
                    </extension>
                </complexContent>
            </complexType>
        </element>
    </sequence>
    <attribute name="temporalOrder" type="nonNegativeInteger"
use="optional"/>
    <attribute name="positionalOrder" type="nonNegativeInteger"
use="optional"/>
</complexType>
</element>
</sequence>
</extension>
</complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of MediaQuality D (8.2.6) -->
<!-- ##### -->
<!-- Definition of MediaQuality D -->
<complexType name="MediaQualityType">
    <complexContent>
        <extension base="mpeg7:DType">
            <sequence>
                <element name="QualityRating" maxOccurs="unbounded">
                    <complexType>
                        <complexContent>
                            <extension base="mpeg7:RatingType">
                                <attribute name="type" use="required">
                                    <simpleType>
                                        <restriction base="NMToken">
                                            <enumeration value="subjective"/>
                                            <enumeration value="objective"/>
                                        </restriction>
                                    </simpleType>
                                </attribute>
                            </extension>
                        </complexContent>
                    </complexType>
                </element>
                <element name="RatingSource" type="mpeg7:AgentType" minOccurs="0"/>
                <element name="PerceptibleDefects" minOccurs="0">
                    <complexType>
                        <sequence>
                            <element name="VisualDefects"
type="mpeg7:ControlledTermUseType" minOccurs="0" maxOccurs="unbounded"/>
                            <element name="AudioDefects"
type="mpeg7:ControlledTermUseType" minOccurs="0" maxOccurs="unbounded"/>
                        </sequence>
                    </complexType>
                </element>
            </sequence>
        </extension>
    </complexContent>
</complexType>

```

```

    </complexContent>
  </complexType>
  <!-- Definition of Rating datatype -->
  <complexType name="RatingType">
    <sequence>
      <element name="RatingValue" type="float"/>
      <element name="RatingScheme">
        <complexType>
          <complexContent>
            <extension base="mpeg7:TermUseType">
              <attribute name="best" type="float" use="optional"/>
              <attribute name="worst" type="float" use="optional"/>
              <attribute name="style" use="required">
                <simpleType>
                  <restriction base="NMTOKEN">
                    <enumeration value="higherBetter"/>
                    <enumeration value="lowerBetter"/>
                  </restriction>
                </simpleType>
              </attribute>
            </extension>
          </complexContent>
        </complexType>
      </element>
    </sequence>
  </complexType>
  <!-- ##### -->
  <!-- Definition of MediaInstance DS (8.2.7) -->
  <!-- ##### -->
  <!-- Definition of MediaInstance DS -->
  <complexType name="MediaInstanceType">
    <complexContent>
      <extension base="mpeg7:DSType">
        <sequence>
          <element name="InstanceIdentifier" type="mpeg7:UniqueIDType"/>
          <element name="MediaLocator" type="mpeg7:MediaLocatorType"/>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
  <!-- ##### -->
  <!-- Definition of CreationInformation DS (9.2.1) -->
  <!-- ##### -->
  <!-- Definition of CreationInformation DS -->
  <complexType name="CreationInformationType">
    <complexContent>
      <extension base="mpeg7:DSType">
        <sequence>
          <element name="Creation" type="mpeg7:CreationType"/>
          <element name="Classification" type="mpeg7:ClassificationType"
minOccurs="0"/>
          <element name="RelatedMaterial" type="mpeg7:RelatedMaterialType"
minOccurs="0" maxOccurs="unbounded"/>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
  <!-- ##### -->
  <!-- Definition of Creation DS (9.2.2) -->
  <!-- ##### -->

```

```

<!-- Definition of Creation DS -->
<complexType name="CreationType">
  <complexContent>
    <extension base="mpeg7:DSType">
      <sequence>
        <element name="Title" type="mpeg7:TitleType" maxOccurs="unbounded"/>
        <element name="TitleMedia" type="mpeg7:TitleMediaType" minOccurs="0"/>
        <element name="Abstract" type="mpeg7:TextAnnotationType" minOccurs="0"
maxOccurs="unbounded"/>
        <element name="Creator" type="mpeg7:CreatorType" minOccurs="0"
maxOccurs="unbounded"/>
        <element name="CreationCoordinates" minOccurs="0"
maxOccurs="unbounded">
          <complexType>
            <sequence>
              <element name="Location" type="mpeg7:PlaceType"
minOccurs="0"/>
              <element name="Date" type="mpeg7:TimeType" minOccurs="0"/>
            </sequence>
          </complexType>
        </element>
        <element name="CreationTool" type="mpeg7:CreationToolType"
minOccurs="0" maxOccurs="unbounded"/>
        <element name="CopyrightString" type="mpeg7:TextualType" minOccurs="0"
maxOccurs="unbounded"/>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<!-- Definition of Title datatype -->
<complexType name="TitleType">
  <simpleContent>
    <extension base="mpeg7:TextualBaseType">
      <attribute name="type" use="optional" default="main">
        <simpleType>
          <union>
            <simpleType>
              <restriction base="NMTOKEN">
                <enumeration value="main"/>
                <enumeration value="secondary"/>
                <enumeration value="alternative"/>
                <enumeration value="original"/>
                <enumeration value="popular"/>
                <enumeration value="opusNumber"/>
                <enumeration value="songTitle"/>
                <enumeration value="albumTitle"/>
                <enumeration value="seriesTitle"/>
                <enumeration value="episodeTitle"/>
              </restriction>
            </simpleType>
            <simpleType>
              <restriction base="mpeg7:termAliasReferenceType"/>
            </simpleType>
            <simpleType>
              <restriction base="mpeg7:termURIReferenceType"/>
            </simpleType>
          </union>
        </simpleType>
      </attribute>
    </extension>
  </simpleContent>

```

```

    </simpleContent>
</complexType>
<!-- Definition of TitleMedia datatype -->
<complexType name="TitleMediaType">
    <sequence>
        <element name="TitleImage" type="mpeg7:ImageLocatorType" minOccurs="0"/>
        <element name="TitleVideo" type="mpeg7:TemporalSegmentLocatorType"
minOccurs="0"/>
        <element name="TitleAudio" type="mpeg7:TemporalSegmentLocatorType"
minOccurs="0"/>
    </sequence>
</complexType>
<!-- Definition of Creator datatype -->
<complexType name="CreatorType">
    <complexContent>
        <extension base="mpeg7:MediaAgentType">
            <sequence>
                <element name="Character" type="mpeg7:PersonNameType" minOccurs="0"
maxOccurs="unbounded"/>
                <element name="Instrument" type="mpeg7:CreationToolType" minOccurs="0"
maxOccurs="unbounded"/>
            </sequence>
        </extension>
    </complexContent>
</complexType>
<!-- Definition of MediaAgent datatype -->
<complexType name="MediaAgentType">
    <sequence>
        <element name="Role" type="mpeg7:ControlledTermUseType"/>
        <choice>
            <element name="Agent" type="mpeg7:AgentType"/>
        </choice>
    </sequence>
</complexType>
<!-- Definition of CreationTool datatype -->
<complexType name="CreationToolType">
    <sequence>
        <element name="Tool" type="mpeg7:TermUseType"/>
        <element name="Setting" minOccurs="0" maxOccurs="unbounded">
            <complexType>
                <attribute name="name" type="string" use="required"/>
                <attribute name="value" type="string" use="required"/>
            </complexType>
        </element>
    </sequence>
</complexType>
<!-- ##### -->
<!-- Definition of Classification DS (9.2.3) -->
<!-- ##### -->
<!-- Definition of Classification DS -->
<complexType name="ClassificationType">
    <complexContent>
        <extension base="mpeg7:DSType">
            <sequence>
                <element name="Form" type="mpeg7:ControlledTermUseType" minOccurs="0"/>
                <element name="Genre" minOccurs="0" maxOccurs="unbounded">
                    <complexType>
                        <complexContent>
                            <extension base="mpeg7:ControlledTermUseType">
                                <attribute name="type" use="optional" default="main">

```

```

        <simpleType>
          <restriction base="NMTOKEN">
            <enumeration value="main"/>
            <enumeration value="secondary"/>
          </restriction>
        </simpleType>
      </attribute>
    </extension>
  </complexContent>
</complexType>
</element>
<element name="Subject" type="mpeg7:TextAnnotationType" minOccurs="0"/>
<element name="Purpose" type="mpeg7:ControlledTermUseType"
minOccurs="0" maxOccurs="unbounded"/>
<element name="Language" type="mpeg7:ExtendedLanguageType"
minOccurs="0" maxOccurs="unbounded"/>
<element name="CaptionLanguage" minOccurs="0" maxOccurs="unbounded">
  <complexType>
    <simpleContent>
      <extension base="language">
        <attribute name="closed" type="boolean" use="optional"
default="true"/>
        <attribute name="supplemental" type="boolean"
use="optional" default="false"/>
      </extension>
    </simpleContent>
  </complexType>
</element>
<element name="SignLanguage" minOccurs="0" maxOccurs="unbounded">
  <complexType>
    <simpleContent>
      <extension base="language">
        <attribute name="primary" type="boolean"
use="optional"/>
        <attribute name="translation" type="boolean"
use="optional"/>
      </extension>
    </simpleContent>
  </complexType>
</element>
</sequence>
</extension>
</complexContent>
</complexType>
<!-- Definition of ExtendedLanguage datatype -->
<complexType name="ExtendedLanguageType">
  <simpleContent>
    <extension base="language">
      <attribute name="type" use="optional" default="original">
        <simpleType>
          <restriction base="NMTOKEN">
            <enumeration value="original"/>
            <enumeration value="dubbed"/>
            <enumeration value="background"/>
          </restriction>
        </simpleType>
      </attribute>
      <attribute name="supplemental" type="boolean" use="optional"
default="false"/>
    </extension>
  </simpleContent>

```

```

    </simpleContent>
  </complexType>
  <!-- ##### -->
  <!-- Definition of RelatedMaterial DS (9.2.4) -->
  <!-- ##### -->
  <!-- Definition of RelatedMaterial DS -->
  <complexType name="RelatedMaterialType">
    <complexContent>
      <extension base="mpeg7:DSType">
        <sequence>
          <element name="MaterialType" type="mpeg7:TermUseType"/>
          <element name="MediaLocator" type="mpeg7:MediaLocatorType"/>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
  <!-- ##### -->
  <!-- Definition of UsageInformation DS (10.2.1) -->
  <!-- ##### -->
  <!-- Definition of UsageInformation DS -->
  <complexType name="UsageInformationType">
    <complexContent>
      <extension base="mpeg7:DSType">
        <sequence>
          <!--
            <element name="Rights" type="mpeg7:RightsType" minOccurs="0"/>
            <element name="FinancialResults" type="mpeg7:FinancialType"
minOccurs="0"/>
          -->
          <element name="Availability" type="mpeg7:AvailabilityType"
minOccurs="0" maxOccurs="unbounded"/>
          <!--
            <element name="UsageRecord" type="mpeg7:UsageRecordType" minOccurs="0"
maxOccurs="unbounded"/>
          -->
        </sequence>
      </extension>
    </complexContent>
  </complexType>
  <!-- ##### -->
  <!-- Definition of Availability DS (10.2.4) -->
  <!-- ##### -->
  <!-- Definition of Availability DS -->
  <complexType name="AvailabilityType">
    <complexContent>
      <extension base="mpeg7:DSType">
        <sequence>
          <element name="InstanceRef" type="mpeg7:ReferenceType"/>
          <element name="Dissemination" type="mpeg7:DisseminationType"
minOccurs="0"/>
          <element name="AvailabilityPeriod" minOccurs="0" maxOccurs="unbounded">
            <complexType>
              <complexContent>
                <extension base="mpeg7:TimeType">
                  <attribute name="type" use="optional">
                    <simpleType>
                      <list>
                        <simpleType>
                          <union>
                            <simpleType>

```



```

value="firstShowing"/>
value="lastShowing"/>
value="conditionalAccess"/>
value="encrypted"/>
value="payPerUse"/>

<restriction base="NMTOKEN">
  <enumeration value="live"/>
  <enumeration value="repeat"/>
  <enumeration
    value="firstShowing"/>
  <enumeration
    value="lastShowing"/>
  <enumeration
    value="conditionalAccess"/>
  <enumeration
    value="encrypted"/>
  <enumeration
    value="payPerUse"/>
</restriction>
</simpleType>
<simpleType>
  <restriction
    base="mpeg7:termReferenceType"/>
  </simpleType>
</union>
</simpleType>
</list>
</simpleType>
</attribute>
</extension>
</complexContent>
</complexType>
</element>
</sequence>
</extension>
</complexContent>
</complexType>
<!-- Definition of Dissemination DS -->
<complexType name="DisseminationType">
  <complexContent>
    <extension base="mpeg7:DSType">
      <sequence>
        <element name="Source" type="mpeg7:TextualType" minOccurs="0"/>
        <element name="Format" type="mpeg7:ControlledTermUseType"
minOccurs="0"/>
        <element name="Disseminator" type="mpeg7:MediaAgentType"
minOccurs="0"/>
        <element name="Location" type="mpeg7:PlaceType" minOccurs="0"/>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of Rights datatype (10.2.2) -->
<!-- ##### -->
<!-- Definition of Rights datatype -->
<complexType name="RightsType">
  <sequence>
    <element name="RightsID" type="mpeg7:UniqueIDType" maxOccurs="unbounded"/>
  </sequence>
</complexType>
<!-- ##### -->
<!-- Definition of Segment DS (11.2.2) -->
<!-- ##### -->
<!-- Definition of Segment DS -->

```

```

<complexType name="SegmentType" abstract="true">
  <complexContent>
    <extension base="mpeg7:DSType">
      <sequence>
        <choice minOccurs="0">
          <element name="MediaInformation" type="mpeg7:MediaInformationType"/>
          <element name="MediaLocator" type="mpeg7:MediaLocatorType"/>
        </choice>
        <element name="StructuralUnit" type="mpeg7:ControlledTermUseType"/>
        <element name="CreationInformation"
type="mpeg7:CreationInformationType" minOccurs="0"/>
        <element name="UsageInformation" type="mpeg7:UsageInformationType"
minOccurs="0"/>
        <element name="TextAnnotation" minOccurs="0" maxOccurs="unbounded">
          <complexType>
            <complexContent>
              <extension base="mpeg7:TextAnnotationType">
                <attribute name="type" use="optional">
                  <simpleType>
                    <union memberTypes="mpeg7:termAliasReferenceType
mpeg7:termURIReferenceType string"/>
                  </simpleType>
                </attribute>
              </extension>
            </complexContent>
          </complexType>
        </element>
        <element name="Relation" type="mpeg7:RelationType" minOccurs="0"
maxOccurs="unbounded"/>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of SegmentDecomposition DS (11.2.3) -->
<!-- ##### -->
<!-- Definition of SegmentDecomposition DS -->
<complexType name="SegmentDecompositionType" abstract="true">
  <complexContent>
    <extension base="mpeg7:DSType">
      <attribute name="criteria" use="required">
        <simpleType>
          <restriction base="string">
            <pattern value="([a-zA-Z][0-9a-zA-Z+\-\.\.]*:)?/{0,2}[0-9a-zA-
Z;/\?:@&=+\$\.\-\_!~*'\"(\)%]+)?(#[0-9a-zA-Z;/\?:@&=+\$\.\-\_!~*'\"(\)%]+)?"/>
          </restriction>
        </simpleType>
      </attribute>
      <attribute name="overlap" type="boolean" use="optional" default="false"/>
      <attribute name="gap" type="boolean" use="optional" default="false"/>
    </extension>
  </complexContent>
</complexType>
<!-- Definition of SpatialSegmentDecomposition DS -->
<complexType name="SpatialSegmentDecompositionType" abstract="true">
  <complexContent>
    <extension base="mpeg7:SegmentDecompositionType"/>
  </complexContent>
</complexType>
<!-- Definition of TemporalSegmentDecomposition DS -->

```

```

<complexType name="TemporalSegmentDecompositionType" abstract="true">
  <complexContent>
    <extension base="mpeg7:SegmentDecompositionType"/>
  </complexContent>
</complexType>
<!-- Definition of SpatioTemporalSegmentDecomposition DS -->
<complexType name="SpatioTemporalSegmentDecompositionType" abstract="true">
  <complexContent>
    <extension base="mpeg7:SegmentDecompositionType"/>
  </complexContent>
</complexType>
<!-- Definition of MediaSourceSegmentDecomposition DS -->
<complexType name="MediaSourceSegmentDecompositionType" abstract="true">
  <complexContent>
    <extension base="mpeg7:SegmentDecompositionType"/>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of StillRegion DS (11.4.2) (AMD/2) -->
<!-- ##### -->
<!-- Definition of StillRegion DS (AMD/2) -->
<complexType name="StillRegionType">
  <complexContent>
    <extension base="mpeg7:SegmentType">
      <sequence>
        <element name="SpatialLocator" type="mpeg7:RegionLocatorType"
minOccurs="0"/>
        <element name="MediaRelIncrTimePoint"
type="mpeg7:MediaRelIncrTimePointType" minOccurs="0"/>
        <choice minOccurs="0" maxOccurs="unbounded">
          <element name="VisualDescriptor" type="mpeg7:VisualDType"/>
          <element name="VisualDescriptionScheme" type="mpeg7:VisualDSType"/>
          <element name="GridLayoutDescriptors" type="mpeg7:GridLayoutType"/>
        </choice>
        <element name="SpatialDecomposition"
type="mpeg7:StillRegionSpatialDecompositionType" minOccurs="0" maxOccurs="unbounded"/>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of StillRegionSpatialDecomposition DS (11.4.3) -->
<!-- ##### -->
<!-- Definition of StillRegionSpatialDecomposition DS -->
<complexType name="StillRegionSpatialDecompositionType">
  <complexContent>
    <extension base="mpeg7:SpatialSegmentDecompositionType">
      <sequence>
        <element name="StillRegion" type="mpeg7:StillRegionType"
maxOccurs="unbounded"/>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of ImageText DS (11.4.4) -->
<!-- ##### -->
<!-- Definition of ImageText DS -->
<complexType name="ImageTextType">
  <complexContent>

```

```

    <extension base="mpeg7:StillRegionType">
      <sequence>
        <element name="Text" type="mpeg7:TextualType" minOccurs="0"/>
      </sequence>
      <attribute name="textType" use="optional">
        <simpleType>
          <union>
            <simpleType>
              <restriction base="NMTOKEN">
                <enumeration value="superimposed"/>
                <enumeration value="scene"/>
              </restriction>
            </simpleType>
            <simpleType>
              <restriction base="mpeg7:termAliasReferenceType"/>
            </simpleType>
            <simpleType>
              <restriction base="mpeg7:termURIReferenceType"/>
            </simpleType>
          </union>
        </simpleType>
      </attribute>
      <attribute name="fontSize" type="positiveInteger" use="optional"/>
      <attribute name="fontType" type="string" use="optional"/>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of VideoSegment DS (11.4.8) (AMD/2) -->
<!-- ##### -->
<!-- Definition of VideoSegment DS (AMD/2) -->
<complexType name="VideoSegmentType">
  <complexContent>
    <extension base="mpeg7:SegmentType">
      <sequence>
        <element name="MediaTime" type="mpeg7:MediaTimeType"/>
        <choice minOccurs="0" maxOccurs="unbounded">
          <element name="VisualDescriptor" type="mpeg7:VisualDType"/>
          <element name="VisualDescriptionScheme" type="mpeg7:VisualDSType"/>
          <element name="VisualTimeSeriesDescriptor"
type="mpeg7:VisualTimeSeriesType"/>
        </choice>
        <choice minOccurs="0" maxOccurs="unbounded">
          <element name="TemporalDecomposition"
type="mpeg7:VideoSegmentTemporalDecompositionType"/>
          <element name="SpatioTemporalDecomposition"
type="mpeg7:VideoSegmentSpatioTemporalDecompositionType"/>
        </choice>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<!-- Definition of VideoSegmentTemporalDecomposition DS -->
<complexType name="VideoSegmentTemporalDecompositionType">
  <complexContent>
    <extension base="mpeg7:TemporalSegmentDecompositionType">
      <choice maxOccurs="unbounded">
        <element name="VideoSegment" type="mpeg7:VideoSegmentType"/>
        <element name="StillRegion" type="mpeg7:StillRegionType"/>
      </choice>
    </extension>
  </complexContent>
</complexType>

```

```

    </extension>
  </complexContent>
</complexType>
<!-- Definition of VideoSegmentSpatioTemporalDecomposition DS -->
<complexType name="VideoSegmentSpatioTemporalDecompositionType">
  <complexContent>
    <extension base="mpeg7:SpatioTemporalSegmentDecompositionType">
      <choice maxOccurs="unbounded">
        <element name="MovingRegion" type="mpeg7:MovingRegionType"/>
        <element name="StillRegion" type="mpeg7:StillRegionType"/>
      </choice>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of MovingRegion DS (11.4.10) (AMD/2) -->
<!-- ##### -->
<!-- Definition of MovingRegion DS (AMD/2) -->
<complexType name="MovingRegionType">
  <complexContent>
    <extension base="mpeg7:SegmentType">
      <sequence>
        <element name="SpatioTemporalLocator"
type="mpeg7:SpatioTemporalLocatorType"/>
        <choice minOccurs="0" maxOccurs="unbounded">
          <element name="VisualDescriptor" type="mpeg7:VisualDType"/>
          <element name="VisualDescriptionScheme" type="mpeg7:VisualDSType"/>
          <element name="VisualTimeSeriesDescriptor"
type="mpeg7:VisualTimeSeriesType"/>
        </choice>
        <element name="SpatioTemporalDecomposition"
type="mpeg7:MovingRegionSpatioTemporalDecompositionType" minOccurs="0"
maxOccurs="unbounded"/>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<!-- Definition of MovingRegionSpatioTemporalDecomposition DS -->
<complexType name="MovingRegionSpatioTemporalDecompositionType">
  <complexContent>
    <extension base="mpeg7:SpatioTemporalSegmentDecompositionType">
      <choice maxOccurs="unbounded">
        <element name="MovingRegion" type="mpeg7:MovingRegionType"/>
        <element name="StillRegion" type="mpeg7:StillRegionType"/>
      </choice>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of VideoText DS (11.4.12) -->
<!-- ##### -->
<!-- Definition of VideoText DS -->
<complexType name="VideoTextType">
  <complexContent>
    <extension base="mpeg7:MovingRegionType">
      <sequence>
        <element name="Text" type="mpeg7:TextualType" minOccurs="0"/>
      </sequence>
      <attribute name="textType" use="optional">
        <simpleType>

```

```

        <union>
            <simpleType>
                <restriction base="NMTOKEN">
                    <enumeration value="superimposed"/>
                    <enumeration value="scene"/>
                </restriction>
            </simpleType>
            <simpleType>
                <restriction base="mpeg7:termAliasReferenceType"/>
            </simpleType>
            <simpleType>
                <restriction base="mpeg7:termURIReferenceType"/>
            </simpleType>
        </union>
    </simpleType>
</attribute>
<attribute name="fontSize" type="positiveInteger" use="optional"/>
<attribute name="fontType" type="string" use="optional"/>
</extension>
</complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of AudioSegment DS (11.5.2) -->
<!-- ##### -->
<!-- Definition of AudioSegment DS -->
<complexType name="AudioSegmentType">
    <complexContent>
        <extension base="mpeg7:SegmentType">
            <sequence>
                <element name="MediaTime" type="mpeg7:MediaTimeType"/>
                <choice minOccurs="0" maxOccurs="unbounded">
                    <element name="AudioDescriptor" type="mpeg7:AudioDType"/>
                    <element name="AudioDescriptionScheme" type="mpeg7:AudioDSType"/>
                </choice>
                <element name="TemporalDecomposition"
type="mpeg7:AudioSegmentTemporalDecompositionType" minOccurs="0" maxOccurs="unbounded"/>
            </sequence>
        </extension>
    </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of AudioSegment decomposition DSs (11.5.3) -->
<!-- ##### -->
<!-- Definition of AudioSegmentTemporalDecomposition DS -->
<complexType name="AudioSegmentTemporalDecompositionType">
    <complexContent>
        <extension base="mpeg7:TemporalSegmentDecompositionType">
            <sequence>
                <element name="AudioSegment" type="mpeg7:AudioSegmentType"
maxOccurs="unbounded"/>
            </sequence>
        </extension>
    </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of AudioVisualSegment DS (11.6.2) -->
<!-- ##### -->
<!-- Definition of AudioVisualSegment DS -->
<complexType name="AudioVisualSegmentType">
    <complexContent>

```

```

    <extension base="mpeg7:SegmentType">
      <sequence>
        <element name="MediaTime" type="mpeg7:MediaTimeType"/>
        <choice minOccurs="0" maxOccurs="unbounded">
          <element name="TemporalDecomposition"
type="mpeg7:AudioVisualSegmentTemporalDecompositionType"/>
          <element name="MediaSourceDecomposition"
type="mpeg7:AudioVisualSegmentMediaSourceDecompositionType"/>
        </choice>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<!-- Definition of AudioVisualSegmentTemporalDecomposition DS -->
<complexType name="AudioVisualSegmentTemporalDecompositionType">
  <complexContent>
    <extension base="mpeg7:TemporalSegmentDecompositionType">
      <sequence>
        <element name="AudioVisualSegment" type="mpeg7:AudioVisualSegmentType"
maxOccurs="unbounded"/>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<!-- Definition of AudioVisualSegmentMediaSourceDecomposition DS -->
<complexType name="AudioVisualSegmentMediaSourceDecompositionType">
  <complexContent>
    <extension base="mpeg7:MediaSourceSegmentDecompositionType">
      <choice maxOccurs="unbounded">
        <element name="VideoSegment" type="mpeg7:VideoSegmentType"/>
        <element name="StillRegion" type="mpeg7:StillRegionType"/>
        <element name="AudioSegment" type="mpeg7:AudioSegmentType"/>
      </choice>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of Summarization DS (13.2.2) -->
<!-- ##### -->
<!-- Definition of Summarization DS -->
<complexType name="SummarizationType">
  <complexContent>
    <extension base="mpeg7:DSType">
      <sequence>
        <element name="Summary" type="mpeg7:SummaryType"
maxOccurs="unbounded"/>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of Summary DS (13.2.3) -->
<!-- ##### -->
<!-- Definition of Summary DS -->
<complexType name="SummaryType" abstract="true">
  <complexContent>
    <extension base="mpeg7:DSType">
      <sequence>
        <element name="Name" type="mpeg7:TextualType" minOccurs="0"
maxOccurs="unbounded"/>

```

```

        <element name="SourceID" type="mpeg7:UniqueIDType" minOccurs="0"/>
    </sequence>
</extension>
</complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of HierarchicalSummary DS (13.2.4) -->
<!-- ##### -->
<!-- Definition of HierarchicalSummary DS -->
<complexType name="HierarchicalSummaryType">
    <complexContent>
        <extension base="mpeg7:SummaryType">
            <sequence>
                <element name="SummarySegmentGroup"
type="mpeg7:SummarySegmentGroupType" maxOccurs="unbounded"/>
            </sequence>
            <attribute name="hierarchy" use="required" fixed="dependent">
                <simpleType>
                    <restriction base="NMTOKEN">
                        <enumeration value="independent"/>
                        <enumeration value="dependent"/>
                    </restriction>
                </simpleType>
            </attribute>
        </extension>
    </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of SummarySegmentGroup DS (13.2.6) -->
<!-- ##### -->
<!-- Definition of SummarySegmentGroup DS -->
<complexType name="SummarySegmentGroupType">
    <complexContent>
        <extension base="mpeg7:DSType">
            <sequence>
                <element name="Name" type="mpeg7:TextualType" minOccurs="0"
maxOccurs="unbounded"/>
                <element name="SummarySegment"
type="mpeg7:SummarySegmentType" maxOccurs="unbounded"/>
                <element name="SummarySegmentGroup"
type="mpeg7:SummarySegmentGroupType" minOccurs="0" maxOccurs="unbounded"/>
            </sequence>
            <attribute name="fidelity" type="mpeg7:zeroToOneType" use="optional"/>
        </extension>
    </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of SummarySegment DS (13.2.7) -->
<!-- ##### -->
<!-- Definition of SummarySegment DS -->
<complexType name="SummarySegmentType">
    <complexContent>
        <extension base="mpeg7:DSType">
            <sequence>
                <element name="Name" type="mpeg7:TextualType" minOccurs="0"
maxOccurs="unbounded"/>
                <element name="SourceID" type="mpeg7:UniqueIDType" minOccurs="0"/>
                <!-- <choice>
                    <element name="KeyAudioVisualClip"
type="mpeg7:TemporalSegmentLocatorType"/>

```



```

        <sequence>
            <element name="KeyVideoClip"
type="mpeg7:TemporalSegmentLocatorType" minOccurs="0"/>
            <element name="KeyAudioClip"
type="mpeg7:TemporalSegmentLocatorType" minOccurs="0"/>
        </sequence>
    </choice> -->
    <choice>
        <element name="KeyAudioVisualClip"
type="mpeg7:TemporalSegmentLocatorType"/>
        <element name="KeyVideoClip"
type="mpeg7:TemporalSegmentLocatorType"/>
        <element name="KeyAudioClip"
type="mpeg7:TemporalSegmentLocatorType"/>
    </choice>
</sequence>
    <attribute name="order" type="positiveInteger" use="optional"/>
</extension>
</complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of SequentialSummary DS (13.2.8) -->
<!-- ##### -->
<!-- Definition of SequentialSummary DS -->
<complexType name="SequentialSummaryType">
    <complexContent>
        <extension base="mpeg7:SummaryType">
            <sequence>
                <choice>
                    <element name="AudioVisualSummaryLocator"
type="mpeg7:TemporalSegmentLocatorType" minOccurs="0"/>
                    <sequence>
                        <element name="VideoSummaryLocator"
type="mpeg7:TemporalSegmentLocatorType" minOccurs="0"/>
                        <element name="AudioSummaryLocator"
type="mpeg7:TemporalSegmentLocatorType" minOccurs="0"/>
                    </sequence>
                </choice>
                <element name="VisualSummaryComponent"
type="mpeg7:VisualSummaryComponentType" minOccurs="0" maxOccurs="unbounded"/>
                <element name="AudioSummaryComponent"
type="mpeg7:AudioSummaryComponentType" minOccurs="0" maxOccurs="unbounded"/>
            </sequence>
        </extension>
    </complexContent>
</complexType>
<!-- ##### -->
<!-- Definition of VisualSummaryComponent D (13.2.9) -->
<!-- ##### -->
<!-- Definition of VisualSummaryComponent D -->
<complexType name="VisualSummaryComponentType">
    <complexContent>
        <extension base="mpeg7:DType">
            <sequence>
                <element name="VideoSourceID" type="mpeg7:UniqueIDType"/>
                <element name="VideoSourceLocator"
type="mpeg7:TemporalSegmentLocatorType"/>
            </sequence>
        </extension>
    </complexContent>

```

```
</complexType>
<!-- ##### -->
<!-- Definition of AudioSummaryComponent D (13.2.10) -->
<!-- ##### -->
<!-- Definition of AudioSummaryComponent D -->
<complexType name="AudioSummaryComponentType">
  <complexContent>
    <extension base="mpeg7:DType">
      <sequence>
        <element name="AudioSourceID" type="mpeg7:UniqueIDType"/>
        <element name="AudioSourceLocator"
type="mpeg7:TemporalSegmentLocatorType"/>
      </sequence>
    </extension>
  </complexContent>
</complexType>
</schema>
```

Add Annex A:

Annex A (informative)

XSLT for generating AudioVisual Description Profile (AVDP) instance

A.1 Introduction

This Annex contains:

- an example MPEG-7 HierarchicalSummary instance
- two versions of an "XSLT to AVDP" transform
- two AVDP compliant output files obtained after XSLT transformation of the HierarchicalSummary instance.

A.2 MPEG-7 instance as input to XML transformation

The MPEG-7 HierarchicalSummary Descriptions to be converted.

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<Mpeg7 xmlns="urn:mpeg:mpeg7:schema:2001" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:mpeg:mpeg7:schema:2001 .\Mpeg7-2001.xsd">
  <Description xsi:type="MediaDescriptionType">
    <MediaInformation>
      <MediaProfile>
        <MediaInstance>
          <InstanceIdentifier>0</InstanceIdentifier>
          <MediaLocator>
            <MediaUri>c:\testusers\test_stream.mpg</MediaUri>
          </MediaLocator>
        </MediaInstance>
      </MediaProfile>
    </MediaInformation>
  </Description>
  <Description xsi:type="SummaryDescriptionType">
    <Summarization mediaTimeUnit="PT1N25F">
      <Summary xsi:type="HierarchicalSummaryType" hierarchy="independent"
components="keyVideoClips keyFrames">
        <Name>HierarchicalKeyFrame Summary</Name>
        <SummaryThemeList>
          <SummaryTheme id="S1">Shots</SummaryTheme>
          <SummaryTheme id="E1">Fine</SummaryTheme>
        </SummaryThemeList>
        <SummarySegmentGroup themeIds="S1" numOfKeyFrames="53">
          <Name>Shots</Name>
          <SummarySegment>
            <KeyVideoClip>
              <MediaTime>
                <MediaRelIncrTimePoint>0</MediaRelIncrTimePoint>
                <MediaIncrDuration>9</MediaIncrDuration>
              </MediaTime>
            </KeyVideoClip>
            <KeyFrame>
              <MediaRelIncrTimePoint>0</MediaRelIncrTimePoint>
            </KeyFrame>
          </SummarySegment>
        </SummarySegmentGroup>
      </Summary>
    </Summarization>
  </Description>
</Mpeg7>
```

```

</SummarySegment>
<SummarySegment>
  <KeyVideoClip>
    <MediaTime>
      <MediaRelIncrTimePoint>36</MediaRelIncrTimePoint>
      <MediaIncrDuration>5</MediaIncrDuration>
    </MediaTime>
  </KeyVideoClip>
  <KeyFrame>
    <MediaRelIncrTimePoint>36</MediaRelIncrTimePoint>
  </KeyFrame>
</SummarySegment>
<SummarySegment>
  <KeyVideoClip>
    <MediaTime>
      <MediaRelIncrTimePoint>54</MediaRelIncrTimePoint>
      <MediaIncrDuration>16</MediaIncrDuration>
    </MediaTime>
  </KeyVideoClip>
  <KeyFrame>
    <MediaRelIncrTimePoint>54</MediaRelIncrTimePoint>
  </KeyFrame>
</SummarySegment>
<SummarySegment>
  <KeyVideoClip>
    <MediaTime>
      <MediaRelIncrTimePoint>115</MediaRelIncrTimePoint>
      <MediaIncrDuration>17</MediaIncrDuration>
    </MediaTime>
  </KeyVideoClip>
  <KeyFrame>
    <MediaRelIncrTimePoint>115</MediaRelIncrTimePoint>
  </KeyFrame>
</SummarySegment>
<SummarySegment>
  <KeyVideoClip>
    <MediaTime>
      <MediaRelIncrTimePoint>182</MediaRelIncrTimePoint>
      <MediaIncrDuration>17</MediaIncrDuration>
    </MediaTime>
  </KeyVideoClip>
  <KeyFrame>
    <MediaRelIncrTimePoint>182</MediaRelIncrTimePoint>
  </KeyFrame>
</SummarySegment>
<SummarySegment>
  <KeyVideoClip>
    <MediaTime>
      <MediaRelIncrTimePoint>247</MediaRelIncrTimePoint>
      <MediaIncrDuration>33</MediaIncrDuration>
    </MediaTime>
  </KeyVideoClip>
  <KeyFrame>
    <MediaRelIncrTimePoint>247</MediaRelIncrTimePoint>
  </KeyFrame>
</SummarySegment>
<SummarySegment>
  <KeyVideoClip>
    <MediaTime>
      <MediaRelIncrTimePoint>376</MediaRelIncrTimePoint>

```

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```

        </KeyFrame>
    </SummarySegment>
    <SummarySegment>
        <KeyVideoClip>
            <MediaTime>
                <MediaRelIncrTimePoint>1040</MediaRelIncrTimePoint>
                <MediaIncrDuration>36</MediaIncrDuration>
            </MediaTime>
        </KeyVideoClip>
        <KeyFrame>
            <MediaRelIncrTimePoint>1040</MediaRelIncrTimePoint>
        </KeyFrame>
    </SummarySegment>
    <SummarySegment>
        <KeyVideoClip>
            <MediaTime>
                <MediaRelIncrTimePoint>1182</MediaRelIncrTimePoint>
                <MediaIncrDuration>13</MediaIncrDuration>
            </MediaTime>
        </KeyVideoClip>
        <KeyFrame>
            <MediaRelIncrTimePoint>1182</MediaRelIncrTimePoint>
        </KeyFrame>
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                <MediaIncrDuration>61</MediaIncrDuration>
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            <MediaIncrDuration>112</MediaIncrDuration>
        </MediaTime>
    </KeyVideoClip>
    <KeyFrame>
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    </KeyFrame>
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</SummarySegmentGroup>
</Summary>
</Summarization>
</Description>
</Mpeg7>

```

A.3 XSLT for Converting to SummaryDescriptionType

The following XSLT generates a description of SummaryDescriptionType which is compliant to the AVDP specification.

```

<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="urn:mpeg:mpeg7:schema:2004" xmlns:mpf="urn:mpeg:mpeg7:schema:2001"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:output method="xml" version="1.0" encoding="UTF-8" indent="yes"/>

  <xsl:variable name="MediaUriValue"
select="//mpf:Mpeg7/mpf:Description[1]/mpf:MediaInformation/mpf:MediaProfile/mpf:MediaInstance/mpf:MediaLocator/mpf:MediaUri" />
  <xsl:variable name="mediaTimeUnitValue"
select="//mpf:Mpeg7/mpf:Description[2]/mpf:Summarization/@mediaTimeUnit" />
  <xsl:variable name="hierarchyValue"
select="//mpf:Mpeg7/mpf:Description[2]/mpf:Summarization/mpf:Summary/@hierarchy" />

  <xsl:template match="/">
    <Mpeg7 xsi:schemaLocation="urn:mpeg:mpeg7:schema:2004 file:///C:/profile.xsd">
      <xsl:apply-templates select="mpf:Mpeg7"/>
    </Mpeg7>
  </xsl:template>

  <xsl:template match="mpf:Mpeg7">
    <DescriptionProfile profileAndLevelIndication="urn:mpeg:mpeg7:profiles:2011:AVDP">
      <DescriptionMetadata>
        <Version>1.0.0</Version>
      </DescriptionMetadata>
      <Description xsi:type="SummaryDescriptionType">
        <Summarization>

```

```

<Summary xsi:type="HierarchicalSummaryType">
  <xsl:attribute name="hierarchy">dependent</xsl:attribute>
  <xsl:attribute name="mediaTimeUnit"><xsl:value-of select="$mediaTimeUnitValue"
/></xsl:attribute>
  <xsl:attribute
name="mediaTimeBase">SummarySegmentGroup/SummarySegment/KeyVideoClip/MediaTime</xsl:attribute>
  <xsl:apply-templates
select="mpf:Description/mpf:Summarization/mpf:Summary/mpf:SummarySegmentGroup/mpf:Name[.='Shots']"/>
  <xsl:apply-templates
select="mpf:Description/mpf:Summarization/mpf:Summary/mpf:SummarySegmentGroup/mpf:Name[.='Fine']"/>
  </Summary>
</Summarization>
</Description>
</xsl:template>

<xsl:template
match="mpf:Description/mpf:Summarization/mpf:Summary/mpf:SummarySegmentGroup/mpf:Name">
  <SummarySegmentGroup>
    <Name>
      <xsl:value-of select="."/>
    </Name>
    <xsl:apply-templates select="../mpf:SummarySegment[position()=1]/mpf:KeyVideoClip"/>
    <SummarySegmentGroup>
      <Name>KeyVideoClip</Name>
      <xsl:apply-templates select="../mpf:SummarySegment/mpf:KeyVideoClip"/>
    </SummarySegmentGroup>
    <SummarySegmentGroup>
      <Name>KeyFrame</Name>
      <xsl:apply-templates select="../mpf:SummarySegment/mpf:KeyFrame"/>
    </SummarySegmentGroup>
  </SummarySegmentGroup>
</xsl:template>

<xsl:template match="mpf:SummarySegment/mpf:KeyVideoClip">
  <SummarySegment>
    <KeyVideoClip>
      <MediaUri>
        <xsl:value-of select="$MediaUriValue"/>
      </MediaUri>
      <MediaTime>
        <MediaRelIncrTimePoint><xsl:value-of select="mpf:MediaTime/mpf:MediaRelIncrTimePoint"
/></MediaRelIncrTimePoint>
        <MediaIncrDuration><xsl:value-of select="mpf:MediaTime/mpf:MediaIncrDuration"
/></MediaIncrDuration>
      </MediaTime>
    </KeyVideoClip>
  </SummarySegment>
</xsl:template>

<xsl:template match="mpf:SummarySegment/mpf:KeyFrame">
  <SummarySegment>
    <KeyVideoClip>
      <MediaUri>
        <xsl:value-of select="$MediaUriValue"/>
      </MediaUri>
      <MediaTime>
        <MediaRelIncrTimePoint><xsl:value-of select="mpf:MediaRelIncrTimePoint"
/></MediaRelIncrTimePoint>
        <MediaIncrDuration>1</MediaIncrDuration>
      </MediaTime>
    </KeyVideoClip>
  </SummarySegment>
</xsl:template>

```



```

    </KeyVideoClip>
  </SummarySegment>
</xsl:template>
</xsl:stylesheet>

```

The following is the AVDP compliant instance generated by the above XSLT.

```

<?xml version="1.0" encoding="UTF-8"?>
<Mpeg7 xmlns="urn:mpeg:mpeg7:schema:2004" xmlns:mpf="urn:mpeg:mpeg7:schema:2001"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:mpeg:mpeg7:schema:2004
file:///C:/profile.xsd">
  <DescriptionProfile profileAndLevelIndication="urn:mpeg:mpeg7:profiles:2011:AVDP"/>
  <DescriptionMetadata>
    <Version>1.0.0</Version>
  </DescriptionMetadata>
  <Description xsi:type="SummaryDescriptionType">
    <Summarization>
      <Summary xsi:type="HierarchicalSummaryType" hierarchy="dependent" mediaTimeUnit="PT1N25F"
mediaTimeBase="SummarySegmentGroup/SummarySegment/KeyVideoClip/MediaTime">
        <SummarySegmentGroup>
          <Name>Shots</Name>
          <SummarySegment>
            <KeyVideoClip>
              <MediaUri>c:\testusers\test_stream.mpg</MediaUri>
              <MediaTime>
                <MediaRelIncrTimePoint>0</MediaRelIncrTimePoint>
                <MediaIncrDuration>9</MediaIncrDuration>
              </MediaTime>
            </KeyVideoClip>
          </SummarySegment>
          <SummarySegmentGroup>
            <Name>KeyVideoClip</Name>
            <SummarySegment>
              <KeyVideoClip>
                <MediaUri>c:\testusers\test_stream.mpg</MediaUri>
                <MediaTime>
                  <MediaRelIncrTimePoint>0</MediaRelIncrTimePoint>
                  <MediaIncrDuration>9</MediaIncrDuration>
                </MediaTime>
              </KeyVideoClip>
            </SummarySegment>
            <SummarySegment>
              <KeyVideoClip>
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                <MediaTime>
                  <MediaRelIncrTimePoint>36</MediaRelIncrTimePoint>
                  <MediaIncrDuration>5</MediaIncrDuration>
                </MediaTime>
              </KeyVideoClip>
            </SummarySegment>
            <SummarySegment>
              <KeyVideoClip>
                <MediaUri>c:\testusers\test_stream.mpg</MediaUri>
                <MediaTime>
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                  <MediaIncrDuration>16</MediaIncrDuration>
                </MediaTime>
              </KeyVideoClip>
            </SummarySegment>
          </SummarySegmentGroup>
        </Summary>
      </Summarization>
    </Description>
  </Mpeg7>

```

```

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  <KeyVideoClip>
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  <KeyVideoClip>
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```

```

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```

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