

Schéma XML pro vytvoření datového balíčku SIP

1. Schéma XML METS

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- METS: Metadata Encoding and Transmission Standard -->
<!--
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-->
<!--
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University),
Robert Wolfe (Massachusetts Institute of Technology), Patrick Yott (Brown University).
-->
<!-- May, 2015 -->
<!-- Version 1.11 -->
<!-- Change History -->
<!-- April 23, 2001: Alpha Draft completed -->
<!-- June 7, 2001: Beta completed -->
<!-- 6/7/2001 Beta Changes:
1. add 'Time' as a possible time code value, as well as TCF.
2. Make drmdSec ID attribute required; make ID attribute optional on MDRef/MDWrap.
3. Add 'Label' attribute to StructMap, along with 'Type'.
4. Add DDI and FGDC as potential metadata schemes to enumeration.
5. Enable an "otherMDtype" attribute for MDWrap/MDRef and any other element where
there's an 'other' in the enumerated possibilities.
6. Add a "profile" attribute to METS element.
7. Revised mptr declaration so that it's like FLocat/MDRef (and not like XLink)
8. Extend internal documentation of <area> attributes.
9. Add "other" to the possible set of LOCTYPES.
10. Change ADMIDS to ADMID on FileGrp.
11. Change "N" to "Order" on <div> element.
12. Change "Number" to "order label" on <div> element
13. Add createdate and lastmoddate attributes to mets element.
14. Allow <div> and <area> elements to link to administrative metadata sections.
15. Normalize attribute pointing facilities for file element and mdRef.
16. Provide a LOCTYPE of "other" and an "otherloctype" attribute for pointing to external
files.
17. Drop PDI from enumeration of LOCTYPES.
18. Make MDTYPE required in mdRef and mdWrap.
19. Rename preservationMD to digiprovMD.
20. Add optional CHECKSUM attribute to FContent element.
21. Modularize declarations of fileGrpType and mdSecType attributes and enumerations to
simplify maintenance.
22. Add TYPE attribute to structMap.
23. Declare structMap element using structMapType rather than direct declaration.
24. Add area element as possible subelement to <div>, along with par and seq.
25. Change mdSec model to ALL, to enable differing order of mdRef/	mdWrap elements.
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26. Extend documentation on <par> and <seq> elements.
-->
<!-- October 22, 2001: Gamma completed -->
<!-- 10/22/2001 Gamma changes:
  1. Added optional fileSec element beneath METS root element to contain fileGrps.
  2. Created subsidiary schema file xlink.xsd for XLink attributes, restored XLink attributes
    to mpTR element, and added XLink support to mdRef and FLocat.
  3. Created new element metsHdr to handle metadata regarding METS document
    itself (analogous to TEI Header). Moved CREATEDATE and LASTMODDATE attributes
    to metsHdr, and added new RECORDSTATUS attribute. Added new subsidiary elements
    agent and altRecordID to metsHdr.
  4. Made CREATEDATE and LASTMODDATE attributes type xsd:date to allow more precise
    recording of when work was done.
  5. Changed all attributes using data type of xsd:binary to xsd:base64Binary to conform to
final
  W3C schema recommendations.
  6. Cleaned up annotations/documentation.
-->
<!-- December 19, 2001: Epsilon and PROTOFINAL completed-->
<!-- 12/19/2001 Epsilon changes:
  1. Changed sequence operator for StructMap so that only 1 root div element is permitted.
  2. Add new roles to agent element's role attribute and support for extensible 'other' role.
  3. Add support for extensible 'other' type attribute on agent element.
  4. Yet more documentation clean up.
  5. Relocate CHECKSUM attribute from FContent to File element.
  6. Change the file element's CREATED attribute and fileGroup's VERSDATE attribute to
    a type of xsd:date
  7. Change attribute name DMD for div element to DMDID for consistency's sake.
  8. Added new behaviorSec for support of referencing executable code from METS object
-->
<!-- February 8, 2002: Zeta bug fix to final -->
<!-- 2/8/2002 Zeta changes:
  1. Eliminated redundant VRA in metadata type enumeration.
  2. Changed mdWrap content model, adding xmlData element to eliminate
    ambiguous content model
-->
<!-- June 3, 2002: Version 1.1 -->
<!-- 6/3/2002 v1.1 changes:
  1. Add new structLink section for recording hyperlinks between media represented by
structMap nodes.
  2. Allow a <par> element to
    contain a <seq> -->
<!-- Dec. 27, 2002: Version 1.2 -->
<!-- 12/27/2002 v1.2 changes:
  1. Add "USE" attribute to FileGrp, File, FLocat and FContent;
  2. Make FLocat repeatable;
  3. Have FContent mimic mdWrap in using separate binData/xmlData sections;
  4. Copyright statement added;
  5. Allow both FLocat and Fcontent in single file element;
  6. Allow behaviorSec elements to group through GROUPID attribute;
  7. allow descriptive and administrative metadata sections to be grouped through GROUPID
attribute;
  8. allow <file> element to point to descriptive metadata via DMDID attribute;
  9. allow descriptive metadata and all forms of administrative metadata to point to
administrative metadata via ADMID attribute;
  10. CREATED and STATUS attributes added to all desc. and adm. metadata sections; and
  11. clean up documentation in elements to reflect reality.
-->
<!-- May 8, 2003: Version 1.3 -->
<!-- 05/05/2003 v1.3 changes:
  1. Change "2. OBJID: a primary identifier assigned to the original source document" to "2.
OBJID: a primary identifier assigned to the METS object."
  2. Add MODS to MDTYPES.
  3. Modify <file> attributes so that instead of just CHECKSUM we have CHECKSUM and
CHECKSUMTYPE, where CHECKSUMTYPE is a controlled vocabulary as follows:
    HAVAL, MD5, SHA-1, SHA-256, SHA-384, SHA-512, TIGER, WHIRLPOOL
  4. Alter BehaviorSec to make it recursive, and add a new behavior element to wrap mechanism and
interfaceDef elements.
-->
<!-- May 1, 2004: Version 1.4 -->
<!-- 05/01/2003 v1.4 changes:
  1. Moved attribute documentation out of element documentation
(thank you, Brian Tingle).

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2. New CONTENTIDS attribute (and URIs simpleType) added to div, fptr,
 mptr and area elements for mapping MPEG21 DII Identifier values
 3. XLink namespace URI changed to conform with XLink recommendation.
 4. ID Attribute added to FContent.
 5. ID Attribute added to structLink.
 6. ID Attribute added to smLink.
 7. "LOM" added as metadata type.
 -->
 <!-- April 12, 2005: Version 1.5 -->
 <!-- 04/12/2005 v1.5 changes:
 1. Made file element recursive to deal with PREMIS Onion Layer model and
 support XFDU-ish unpacking specification.
 2. Add <stream> element beneath <file> to allow linking of metadata to
 subfile structures.
 3. Modify structLink TO and FROM attributes to put them in XLink namespace.
 4. Make processContents "lax" for all xsd:any elements.
 -->
 <!-- October 18, 2006: Version 1.6 -->
 <!-- 10/18/2006 v1.6 changes:
 1. add ID to stream and transformFile
 2. add ADMID to metsHdr
 3. make smLink/@xlink:to and smLink/@xlink:from required
 -->
 <!-- October 16, 2007/ Jan 20, 2008: Version 1.7 -->
 <!-- 10/16/2007 01/30/2008 v 1.7 changes:
 1. create parType complex type to allow a seq to contain a par
 2. create FILECORE attribute group with MIMETYPE, SIZE, CHECKSUM, CHECKSUMTYPE;
 change fileType, mdWrapType and mdRefType use the attribute group, so mdType and mdRef
 end
 up with new SIZE, CHECKSUM, and CHECKSUMTYPE attributes (file does not change)
 20080130
 2a. CREATED added to FILECORE
 3. PREMIS:OBJECT PREMIS:AGENT PREMIS:RIGHTS PREMIS:EVENT added to MDTYPE value enumeration
 -->
 <!-- April 2009: Version 1.8 -->
 <!-- Version 1.8 changes:
 1. Add CRC32, Adler-32, MNP to the enumerated values constraining CHECKSUMTYPE to align with
 MIX messageDigestAlgorithm constraints.
 2. Add TEXTMD and METSRIGHTS to the enumeration values constraining MDTYPE.
 3. Add an MDTYPEVERSION attribute as a companion to the MDTYPE attribute in the mdRef and
 mdWrap elements.
 4. ID and STRUCTID attributes on the behavior element made optional. Depending on whether
 the behavior applies to a transformFile element or div elements in the structMap, only one or
 the other of the attributes would pertain.
 5. Documentation aligned with the METS Primer, and corrected.
 6. xml:lang="en" attribute value added to every <documentation> element
 7. xlink:extendedLink support added to the <structLink> element by means of a new
 <smLinkGrp> element, and its child <smLocatorLink> and <smArcLink> elements.
 -->
 <!--February 2010: Version 1.9-->
 <!--Version 1.9 Changes:
 1. Added a <metsDocumentID> element to the <metsHdr> for recording a unique identifier for
 the METS document itself where this is different from the OBJID, the identifier for the entire
 digital object represented by the METS document.
 2. Added "ISO 19115:2003 NAP" to the enumerated values for the MDTYPE attribute in the
 METADATA attribute group.
 3. Added "XPTR" to the enumerated values for the BETYPE attribute on the areaType data type
 4. Added BEGIN, END and BETYPE attributes to the <file> and <stream> elements for specifying
 the location of a nested file or a stream within it's parent file.
 -->
 <!-- March 2012: Version 1.9.1 -->
 <!-- Version 1.9.1 Changes:
 1. Added 'EAC-CPF' as potential metadata scheme to MDTYPE enumeration
 EAC-CPF = Encoded Archival Context - Corporate Bodies, Persons, and Families
 http://eac.staatsbibliothek-berlin.de/eac-cpf-schema.html
 -->
 <!-- July 2013: Version 1.10 -->
 <!-- Version 1.10 Changes:
 1. Added 'LIDO' as potential metadata scheme to MDTYPE enumeration
 LIDO = Lightweight Information Describing Objects
 http://network.icom.museum/cidoc/working-groups/data-harvesting-and-interchange/lido-
 technical/specification/
 2. Added xsd:anyAttribute with namespace ##other and processContents lax to these METS
 elements:

```

mets
  metsHdr
  dmdSec
  amdSec
    techMD
    rightsMD
    sourceMD
    digiprovMD
  fileSec
    fileGrp
      file
    structMap
      fptr
    structLink
    behaviorSec
  This will allow arbitrary new attributes to be added to these elements to support local
needs.
-->
<!-- January 2015: Version 1.10.1 -->
<!-- Version 1.10.1 Changes:
  1. Fixed bug: The anyAttribute declaration was inadvertently added to the FLocat element
when it should have been on the file element. This
  has been corrected in this version.
-->
<!-- May 2015: Version 1.11 -->
<!-- Version 1.11 Changes:
  1. Added new attributes, ORDER, ORDERLABEL, and LABEL, to these METS elements:
    par
    seq
    area
  2. Also added xsd:anyAttribute with namespace ##other and processContents lax to these
elements. This will allow arbitrary new attributes to be added to these elements to support
local needs.
-->

<xsd:schema targetNamespace="http://www.loc.gov/METS/" xmlns="http://www.loc.gov/METS/"
  xmlns:xlink="http://www.w3.org/1999/xlink" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified" attributeFormDefault="unqualified">
  <xsd:import namespace="http://www.w3.org/1999/xlink"
  schemaLocation="http://www.loc.gov/standards/xlink/xlink.xsd"/>

  <xsd:element name="mets">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">METS: Metadata Encoding and Transmission Standard.
        METS is intended to provide a standardized XML format for transmission of complex
        digital library objects between systems. As such, it can be seen as filling a role similar to
        that defined for the Submission Information Package (SIP), Archival Information Package (AIP)
        and Dissemination Information Package (DIP) in the Reference Model for an Open Archival
        Information System. The root element &lt;mets&gt; establishes the container for the
        information being stored and/or transmitted by the standard.
      </xsd:documentation>
    </xsd:annotation>
    <xsd:complexType>
      <xsd:complexContent>
        <xsd:extension base="metsType"/>
      </xsd:complexContent>
    </xsd:complexType>
  </xsd:element>
  <xsd:complexType name="metsType">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">metsType: Complex Type for METS Sections
        A METS document consists of seven possible subsidiary sections: metsHdr (METS document
        header), dmdSec (descriptive metadata section), amdSec (administrative metadata section),
        fileGrp (file inventory group), structLink (structural map linking), structMap (structural
        map) and behaviorSec (behaviors section).
      </xsd:documentation>
    </xsd:annotation>
    <xsd:sequence>
      <xsd:element name="metsHdr" minOccurs="0">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">
            The mets header element &lt;metsHdr&gt; captures metadata about the METS document
            itself, not the digital object the METS document encodes. Although it records a more limited
            set of metadata, it is very similar in function and purpose to the headers employed in other
            schema such as the Text Encoding Initiative (TEI) or in the Encoded Archival Description
            (EAD).
          </xsd:documentation>

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    </xsd:annotation>
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="agent" minOccurs="0" maxOccurs="unbounded">
                <xsd:annotation>
                    <xsd:documentation xml:lang="en">agent:
                        The agent element &lt;agent&gt; provides for various parties and their roles
                        with respect to the METS record to be documented.
                </xsd:documentation>
            </xsd:element>
            <xsd:element name="name" type="xsd:string" minOccurs="0" maxOccurs="unbounded">
                <xsd:annotation>
                    <xsd:documentation xml:lang="en">
                        The element &lt;name&gt; can be used to record the full name of the
                        document agent.
                </xsd:documentation>
            </xsd:element>
            <xsd:element name="note" type="xsd:string" minOccurs="0" maxOccurs="unbounded">
                <xsd:annotation>
                    <xsd:documentation xml:lang="en">
                        The &lt;note&gt; element can be used to record any additional
                        information regarding the agent's activities with respect to the METS document.
                </xsd:documentation>
            </xsd:element>
            <xsd:attribute name="ID" type="xsd:ID" use="optional">
                <xsd:annotation>
                    <xsd:documentation xml:lang="en">ID (ID/O): This attribute uniquely
                    identifies the element within the METS document, and would allow the element to be referenced
                    unambiguously from another element or document via an IDREF or an XPTR. For more information
                    on using ID attributes for internal and external linking see Chapter 4 of the METS Primer.
                </xsd:documentation>
            </xsd:attribute>
            <xsd:attribute name="ROLE" use="required">
                <xsd:annotation>
                    <xsd:documentation xml:lang="en">ROLE (string/R): Specifies the function
                    of the agent with respect to the METS record. The allowed values are:
                    CREATOR: The person(s) or institution(s) responsible for the METS document.
                    EDITOR: The person(s) or institution(s) that prepares the metadata for encoding.
                    ARCHIVIST: The person(s) or institution(s) responsible for the document/collection.
                    PRESERVATION: The person(s) or institution(s) responsible for preservation functions.
                    DISSEMINATOR: The person(s) or institution(s) responsible for dissemination functions.
                    CUSTODIAN: The person(s) or institution(s) charged with the oversight of a
                    document/collection.
                    IPOWERER: Intellectual Property Owner: The person(s) or institution holding copyright, trade or
                    service marks or other intellectual property rights for the object.
                    OTHER: Use OTHER if none of the preceding values pertains and clarify the type and location
                    specifier being used in the OTHERROLE attribute (see below).
                </xsd:documentation>
            </xsd:annotation>
            <xsd:simpleType>
                <xsd:restriction base="xsd:string">
                    <xsd:enumeration value="CREATOR"/>
                    <xsd:enumeration value="EDITOR"/>
                    <xsd:enumeration value="ARCHIVIST"/>
                    <xsd:enumeration value="PRESERVATION"/>
                    <xsd:enumeration value="DISSEMINATOR"/>
                    <xsd:enumeration value="CUSTODIAN"/>
                    <xsd:enumeration value="IPOWERER"/>
                    <xsd:enumeration value="OTHER"/>
                </xsd:restriction>
            </xsd:simpleType>
        </xsd:attribute>
        <xsd:attribute name="OTHERROLE" type="xsd:string" use="optional">
            <xsd:annotation>
                <xsd:documentation xml:lang="en">OTHERROLE (string/O): Denotes a role not
                contained in the allowed values set if OTHER is indicated in the ROLE attribute.
            </xsd:documentation>
        </xsd:attribute>
        <xsd:attribute name="TYPE" use="optional">

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        <xsd:annotation>
            <xsd:documentation xml:lang="en">TYPE (string/O): is used to specify the
type of AGENT. It must be one of the following values:
INDIVIDUAL: Use if an individual has served as the agent.
ORGANIZATION: Use if an institution, corporate body, association, non-profit enterprise,
government, religious body, etc. has served as the agent.
OTHER: Use OTHER if none of the preceding values pertain and clarify the type of agent
specifier being used in the OTHERTYPE attribute
        </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleType>
        <xsd:restriction base="xsd:string">
            <xsd:enumeration value="INDIVIDUAL"/>
            <xsd:enumeration value="ORGANIZATION"/>
            <xsd:enumeration value="OTHER"/>
        </xsd:restriction>
    </xsd:simpleType>
</xsd:attribute>
<xsd:attribute name="OTHERTYPE" type="xsd:string" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">OTHERTYPE (string/O): Specifies the type
of agent when the value OTHER is indicated in the TYPE attribute.
    </xsd:documentation>
</xsd:annotation>
</xsd:attribute>
</xsd:complexType>
</xsd:element>
<xsd:element name="altRecordID" minOccurs="0" maxOccurs="unbounded">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">
            The alternative record identifier element &lt;altRecordID&gt; allows one to
use alternative record identifier values for the digital object represented by the METS
document; the primary record identifier is stored in the OBJID attribute in the root
&lt;mets&gt; element.
        </xsd:documentation>
    </xsd:annotation>
    <xsd:complexType>
        <xsd:simpleContent>
            <xsd:extension base="xsd:string">
                <xsd:attribute name="ID" type="xsd:ID" use="optional">
                    <xsd:annotation>
                        <xsd:documentation xml:lang="en">ID (ID/O): This attribute uniquely
identifies the element within the METS document, and would allow the element to be referenced
unambiguously from another element or document via an IDREF or an XPTR. For more information
on using ID attributes for internal and external linking see Chapter 4 of the METS Primer.
                    </xsd:documentation>
                </xsd:annotation>
            </xsd:extension>
        </xsd:simpleContent>
    </xsd:complexType>
</xsd:element>
<xsd:element name="metsDocumentID" minOccurs="0">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">
            The metsDocument identifier element &lt;metsDocumentID&gt; allows a unique
identifier to be assigned to the METS document itself. This may be different from the OBJID
attribute value in the root &lt;mets&gt; element, which uniquely identifies the entire digital
object represented by the METS document.
        </xsd:documentation>
    </xsd:annotation>
    <xsd:complexType>
        <xsd:simpleContent>
            <xsd:extension base="xsd:string">
                <xsd:attribute name="ID" type="xsd:ID" use="optional">
                    <xsd:annotation>
                        <xsd:documentation xml:lang="en">ID (ID/O): This attribute uniquely
identifies the element within the METS document, and would allow the element to be referenced
unambiguously from another element or document via an IDREF or an XPTR. For more information
on using ID attributes for internal and external linking see Chapter 4 of the METS Primer.
                    </xsd:documentation>
                </xsd:annotation>
            </xsd:extension>
        </xsd:simpleContent>
    </xsd:complexType>
</xsd:element>

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        </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="TYPE" type="xsd:string" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">TYPE (string/O): A description of the
identifier type.
    </xsd:annotation>
    </xsd:attribute>
</xsd:extension>
<xsd:simpleContent>
</xsd:complexType>
</xsd:element>
</xsd:sequence>
<xsd:attribute name="ID" type="xsd:ID" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">ID (ID/O): This attribute uniquely identifies
the element within the METS document, and would allow the element to be referenced
unambiguously from another element or document via an IDREF or an XPTR. For more information
on using ID attributes for internal and external linking see Chapter 4 of the METS Primer.
    </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="ADMID" type="xsd:IDREFS" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">ADMID (IDREFS/O): Contains the ID attribute
values of the &lt;techMD&gt;, &lt;sourceMD&gt;, &lt;rightsMD&gt; and/or &lt;digiprovMD&gt;
elements within the &lt;amdSec&gt; of the METS document that contain administrative metadata
pertaining to the METS document itself. For more information on using METS IDREFS and IDREF
type attributes for internal linking, see Chapter 4 of the METS Primer.
    </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="CREATEDATE" type="xsd:dateTime" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">CREATEDATE (dateTime/O): Records the date/time
the METS document was created.
    </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="LASTMODDATE" type="xsd:dateTime" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">LASTMODDATE (dateTime/O): Is used to indicate
the date/time the METS document was last modified.
    </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="RECORDSTATUS" type="xsd:string" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">RECORDSTATUS (string/O): Specifies the status
of the METS document. It is used for internal processing purposes.
    </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:anyAttribute namespace="#other" processContents="lax"/>
</xsd:complexType>
</xsd:element>
<xsd:element name="dmdSec" type="mdSecType" minOccurs="0" maxOccurs="unbounded">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">
            A descriptive metadata section &lt;dmdSec&gt; records descriptive metadata
pertaining to the METS object as a whole or one of its components. The &lt;dmdSec&gt; element
conforms to same generic datatype as the &lt;techMD&gt;, &lt;rightsMD&gt;, &lt;sourceMD&gt;
and &lt;digiprovMD&gt; elements, and supports the same sub-elements and attributes. A
descriptive metadata element can either wrap the metadata (mdWrap) or reference it in an
external location (mdRef) or both. METS allows multiple &lt;dmdSec&gt; elements; and
descriptive metadata can be associated with any METS element that supports a DMDID attribute.
Descriptive metadata can be expressed according to many current description standards (i.e.,
MARC, MODS, Dublin Core, TEI Header, EAD, VRA, FGDC, DDI) or a locally produced XML schema.
        </xsd:documentation>
    </xsd:annotation>
</xsd:element>
<xsd:element name="amdSec" type="amdSecType" minOccurs="0" maxOccurs="unbounded">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">
            The administrative metadata section &lt;amdSec&gt; contains the administrative

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metadata pertaining to the digital object, its components and any original source material from which the digital object is derived. The <amdSec> is separated into four subsections that accommodate technical metadata (techMD), intellectual property rights (rightsMD), analog/digital source metadata (sourceMD), and digital provenance metadata (digiprovMD). Each of these subsections can either wrap the metadata (mdWrap) or reference it in an external location (mdRef) or both. Multiple instances of the <amdSec> element can occur within a METS document and multiple instances of its subsections can occur in one <amdSec> element. This allows considerable flexibility in the structuring of the administrative metadata. METS does not define a vocabulary or syntax for encoding administrative metadata. Administrative metadata can be expressed within the amdSec sub-elements according to many current community defined standards, or locally produced XML schemas.

```

</xsd:documentation>
</xsd:annotation>
</xsd:element>
<xsd:element name="fileSec" minOccurs="0">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">
            The overall purpose of the content file section element &lt;fileSec&gt; is to provide an inventory of and the location for the content files that comprise the digital object being described in the METS document.
        </xsd:documentation>
    </xsd:annotation>
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="fileGrp" maxOccurs="unbounded">
                <xsd:annotation>
                    <xsd:documentation xml:lang="en">
                        A sequence of file group elements &lt;fileGrp&gt; can be used group the digital files comprising the content of a METS object either into a flat arrangement or, because each file group element can itself contain one or more file group elements, into a nested (hierarchical) arrangement. In the case where the content files are images of different formats and resolutions, for example, one could group the image content files by format and create a separate &lt;fileGrp&gt; for each image format/resolution such as:
                    -- one &lt;fileGrp&gt; for the thumbnails of the images
                    -- one &lt;fileGrp&gt; for the higher resolution JPEGs of the image
                    -- one &lt;fileGrp&gt; for the master archival TIFFs of the images
                    For a text resource with a variety of content file types one might group the content files at the highest level by type, and then use the &lt;fileGrp&gt; element's nesting capabilities to subdivide a &lt;fileGrp&gt; by format within the type, such as:
                    -- one &lt;fileGrp&gt; for all of the page images with nested &lt;fileGrp&gt; elements for each image format/resolution (tiff, jpeg, gif)
                    -- one &lt;fileGrp&gt; for a PDF version of all the pages of the document
                    -- one &lt;fileGrp&gt; for a TEI encoded XML version of the entire document or each of its pages.
                    A &lt;fileGrp&gt; may contain zero or more &lt;fileGrp&gt; elements and or &lt;file&gt; elements.
                </xsd:documentation>
                </xsd:annotation>
                <xsd:complexType>
                    <xsd:complexContent>
                        <xsd:extension base="fileGrpType"/>
                    </xsd:complexContent>
                </xsd:complexType>
            </xsd:sequence>
            <xsd:attribute name="ID" type="xsd:ID" use="optional">
                <xsd:annotation>
                    <xsd:documentation xml:lang="en">ID (ID/0): This attribute uniquely identifies the element within the METS document, and would allow the element to be referenced unambiguously from another element or document via an IDREF or an XPTR. For more information on using ID attributes for internal and external linking see Chapter 4 of the METS Primer.
                </xsd:documentation>
                </xsd:annotation>
            </xsd:attribute>
            <xsd:anyAttribute namespace="#other" processContents="lax"/>
        </xsd:complexType>
    </xsd:element>
    <xsd:element name="structMap" type="structMapType" maxOccurs="unbounded">
        <xsd:annotation>
            <xsd:documentation xml:lang="en">
                The structural map section &lt;structMap&gt; is the heart of a METS document. It provides a means for organizing the digital content represented by the &lt;file&gt; elements in the &lt;fileSec&gt; of the METS document into a coherent hierarchical structure. Such a hierarchical structure can be presented to users to facilitate their comprehension and navigation of the digital content. It can further be applied to any purpose requiring an understanding of the structural relationship of the content files or parts of the content files. The organization may be specified to any level of granularity (intellectual and or

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physical) that is desired. Since the <structMap> element is repeatable, more than one organization can be applied to the digital content represented by the METS document. The hierarchical structure specified by a <structMap> is encoded as a tree of nested <div> elements. A <div> element may directly point to content via child file pointer <fptr> elements (if the content is represented in the <fileSec<) or child METS pointer <mptr> elements (if the content is represented by an external METS document). The <fptr> element may point to a single whole <file> element that manifests its parent <div<, or to part of a <file> that manifests its <div<. It can also point to multiple files or parts of files that must be played/displayed either in sequence or in parallel to reveal its structural division. In addition to providing a means for organizing content, the <structMap> provides a mechanism for linking content at any hierarchical level with relevant descriptive and administrative metadata.

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        </xsd:documentation>
        </xsd:annotation>
    </xsd:element>
<xsd:element name="structLink" minOccurs="0">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">
            The structural link section element &lt;structLink&gt; allows for the specification of hyperlinks between the different components of a METS structure that are delineated in a structural map. This element is a container for a single, repeatable element, &lt;smLink&gt; which indicates a hyperlink between two nodes in the structural map. The &lt;structLink&gt; section in the METS document is identified using its XML ID attributes.
        </xsd:documentation>
    </xsd:annotation>
    <xsd:complexType>
        <xsd:complexContent>
            <xsd:extension base="structLinkType"/>
        </xsd:complexContent>
    </xsd:complexType>
</xsd:element>
<xsd:element name="behaviorSec" type="behaviorSecType" minOccurs="0"
maxOccurs="unbounded">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">
            A behavior section element &lt;behaviorSec&gt; associates executable behaviors with content in the METS document by means of a repeatable behavior &lt;behavior&gt; element. This element has an interface definition &lt;interfaceDef&gt; element that represents an abstract definition of the set of behaviors represented by a particular behavior section. A &lt;behavior&gt; element also has a &lt;mechanism&gt; element which is used to point to a module of executable code that implements and runs the behavior defined by the interface definition. The &lt;behaviorSec&gt; element, which is repeatable as well as nestable, can be used to group individual behaviors within the structure of the METS document. Such grouping can be useful for organizing families of behaviors together or to indicate other relationships between particular behaviors.</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
</xsd:sequence>
<xsd:attribute name="ID" type="xsd:ID" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">ID (ID/O): This attribute uniquely identifies the element within the METS document, and would allow the element to be referenced unambiguously from another element or document via an IDREF or an XPTR. For more information on using ID attributes for internal and external linking see Chapter 4 of the METS Primer.
    </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="OBJID" type="xsd:string" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">OBJID (string/O): Is the primary identifier assigned to the METS object as a whole. Although this attribute is not required, it is strongly recommended. This identifier is used to tag the entire METS object to external systems, in contrast with the ID identifier.
    </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="LABEL" type="xsd:string" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">LABEL (string/O): Is a simple title string used to identify the object/entity being described in the METS document for the user.
    </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="TYPE" type="xsd:string" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">TYPE (string/O): Specifies the class or type of the object, e.g.: book, journal, stereograph, dataset, video, etc.
    </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>

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        </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="PROFILE" type="xsd:string" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">PROFILE (string/0): Indicates to which of the
registered profile(s) the METS document conforms. For additional information about PROFILEs
see Chapter 5 of the METS Primer.
    </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:anyAttribute namespace="#other" processContents="lax"/>
</xsd:complexType>
<xsd:complexType name="amdSecType">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">amdSecType: Complex Type for Administrative Metadata
Sections
        The administrative metadata section consists of four possible subsidiary sections:
techMD (technical metadata for text/image/audio/video files), rightsMD (intellectual property
rights metadata), sourceMD (analog/digital source metadata), and digiprovMD (digital
provenance metadata, that is, the history of migrations/translations performed on a digital
library object from its original digital capture/encoding).
    </xsd:documentation>
    </xsd:annotation>
</xsd:sequence>
<xsd:element name="techMD" type="mdSecType" minOccurs="0" maxOccurs="unbounded">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">
            A technical metadata element &lt;techMD&gt; records technical metadata about a
component of the METS object, such as a digital content file. The &lt;techMD&gt; element
conforms to same generic datatype as the &lt;dmdSec&gt;, &lt;rightsMD&gt;, &lt;sourceMD&gt;
and &lt;digiprovMD&gt; elements, and supports the same sub-elements and attributes. A
technical metadata element can either wrap the metadata (mdWrap) or reference it in an
external location (mdRef) or both. METS allows multiple &lt;techMD&gt; elements; and
technical metadata can be associated with any METS element that supports an ADMID attribute.
Technical metadata can be expressed according to many current technical description standards
(such as MIX and textMD) or a locally produced XML schema.
        </xsd:documentation>
    </xsd:annotation>
</xsd:element>
<xsd:element name="rightsMD" type="mdSecType" minOccurs="0" maxOccurs="unbounded">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">
            An intellectual property rights metadata element &lt;rightsMD&gt; records
information about copyright and licensing pertaining to a component of the METS object. The
&lt;rightsMD&gt; element conforms to same generic datatype as the &lt;dmdSec&gt;, &lt;techMD>,
&lt;sourceMD&gt; and &lt;digiprovMD&gt; elements, and supports the same sub-elements and
attributes. A rights metadata element can either wrap the metadata (mdWrap) or reference it
in an external location (mdRef) or both. METS allows multiple &lt;rightsMD&gt; elements; and
rights metadata can be associated with any METS element that supports an ADMID attribute.
Rights metadata can be expressed according to current rights description standards (such as
CopyrightMD and rightsDeclarationMD) or a locally produced XML schema.
        </xsd:documentation>
    </xsd:annotation>
</xsd:element>
<xsd:element name="sourceMD" type="mdSecType" minOccurs="0" maxOccurs="unbounded">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">
            A source metadata element &lt;sourceMD&gt; records descriptive and administrative
metadata about the source format or media of a component of the METS object such as a digital
content file. It is often used for discovery, data administration or preservation of the
digital object. The &lt;sourceMD&gt; element conforms to same generic datatype as the
&lt;dmdSec&gt;, &lt;techMD&gt;, &lt;rightsMD&gt;, and &lt;digiprovMD&gt; elements, and
supports the same sub-elements and attributes. A source metadata element can either wrap the
metadata (mdWrap) or reference it in an external location (mdRef) or both. METS allows
multiple &lt;sourceMD&gt; elements; and source metadata can be associated with any METS
element that supports an ADMID attribute. Source metadata can be expressed according to
current source description standards (such as PREMIS) or a locally produced XML schema.
        </xsd:documentation>
    </xsd:annotation>
</xsd:element>
<xsd:element name="digiprovMD" type="mdSecType" minOccurs="0" maxOccurs="unbounded">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">
            A digital provenance metadata element &lt;digiprovMD&gt; can be used to record any
preservation-related actions taken on the various files which comprise a digital object (e.g.,
those subsequent to the initial digitization of the files such as transformation or

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migrations) or, in the case of born digital materials, the files' creation. In short, digital provenance should be used to record information that allows both archival/library staff and scholars to understand what modifications have been made to a digital object and/or its constituent parts during its life cycle. This information can then be used to judge how those processes might have altered or corrupted the object's ability to accurately represent the original item. One might, for example, record master derivative relationships and the process by which those derivations have been created. Or the <digiprovMD> element could contain information regarding the migration/transformation of a file from its original digitization (e.g., OCR, TEI, etc.,) to its current incarnation as a digital object (e.g., JPEG2000). The <digiprovMD> element conforms to same generic datatype as the <dmdSec>, <techMD>, <rightsMD>, and <sourceMD> elements, and supports the same sub-elements and attributes. A digital provenance metadata element can either wrap the metadata (mdWrap) or reference it in an external location (mdRef) or both. METS allows multiple <digiprovMD> elements; and digital provenance metadata can be associated with any METS element that supports an ADMID attribute. Digital provenance metadata can be expressed according to current digital provenance description standards (such as PREMIS) or a locally produced XML schema.

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</xsd:documentation>
</xsd:annotation>
</xsd:element>
</xsd:sequence>
<xsd:attribute name="ID" type="xsd:ID" use="optional">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">ID (ID/O): This attribute uniquely identifies the
    element within the METS document, and would allow the element to be referenced unambiguously
    from another element or document via an IDREF or an XPTR. For more information on using ID
    attributes for internal and external linking see Chapter 4 of the METS Primer.
  </xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:anyAttribute namespace="##other" processContents="lax"/>
</xsd:complexType>
<xsd:complexType name="fileGrpType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">fileGrpType: Complex Type for File Groups
      The file group is used to cluster all of the digital files composing a digital library
      object in a hierarchical arrangement (fileGrp is recursively defined to enable the creation of
      the hierarchy). Any file group may contain zero or more file elements. File elements in turn
      can contain one or more FLocat elements (a pointer to a file containing content for this
      object) and/or a FContent element (the contents of the file, in either XML or Base64
      encoding).
    </xsd:documentation>
  </xsd:annotation>
  <xsd:choice>
    <xsd:element name="fileGrp" type="fileGrpType" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="file" minOccurs="0" maxOccurs="unbounded" type="fileType" >
      <xsd:annotation>
        <xsd:documentation xml:lang="en">
          The file element &lt;file&gt; provides access to the content files for the digital
          object being described by the METS document. A &lt;file&gt; element may contain one or more
          &lt;FLocat&gt; elements which provide pointers to a content file and/or a &lt;FContent&gt;
          element which wraps an encoded version of the file. Embedding files using &lt;FContent&gt; can
          be a valuable feature for exchanging digital objects between repositories or for archiving
          versions of digital objects for off-site storage. All &lt;FLocat&gt; and &lt;FContent&gt;
          elements should identify and/or contain identical copies of a single file. The &lt;file&gt;
          element is recursive, thus allowing sub-files or component files of a larger file to be listed
          in the inventory. Alternatively, by using the &lt;stream&gt; element, a smaller component of a
          file or of a related file can be placed within a &lt;file&gt; element. Finally, by using the
          &lt;transformFile&gt; element, it is possible to include within a &lt;file&gt; element a
          different version of a file that has undergone a transformation for some reason, such as
          format migration.
        </xsd:documentation>
      </xsd:annotation>
    </xsd:element>
  </xsd:choice>
  <xsd:attribute name="ID" type="xsd:ID" use="optional">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">ID (ID/O): This attribute uniquely identifies the
      element within the METS document, and would allow the element to be referenced unambiguously
      from another element or document via an IDREF or an XPTR. For more information on using ID
      attributes for internal and external linking see Chapter 4 of the METS Primer.
    </xsd:documentation>
    </xsd:annotation>
  </xsd:attribute>
  <xsd:attribute name="VERSDATE" type="xsd:dateTime" use="optional">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">VERSDATE (dateTime/O): An optional dateTime attribute

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specifying the date this version/fileGrp of the digital object was created.
    </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="ADMID" type="xsd:IDREFS" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">ADMID (IDREF/O): Contains the ID attribute values of
the &lt;techMD&gt;, &lt;sourceMD&gt;, &lt;rightsMD&gt; and/or &lt;digiprovMD&gt; elements
within the &lt;amdSec&gt; of the METS document applicable to all of the files in a particular
file group. For more information on using METS IDREFS and IDREF type attributes for internal
linking, see Chapter 4 of the METS Primer.
    </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="USE" type="xsd:string" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">USE (string/O): A tagging attribute to indicate the
intended use of files within this file group (e.g., master, reference, thumbnails for image
files). A USE attribute can be expressed at the &lt;fileGrp&gt; level, the &lt;file&gt; level,
the &lt;FLocat&gt; level and/or the &lt;FContent&gt; level. A USE attribute value at the
&lt;fileGrp&gt; level should pertain to all of the files in the &lt;fileGrp&gt;. A USE
attribute at the &lt;file&gt; level should pertain to all copies of the file as represented by
subsidiary &lt;FLocat&gt; and/or &lt;FContent&gt; elements. A USE attribute at the
&lt;FLocat&gt; or &lt;FContent&gt; level pertains to the particular copy of the file that is
either referenced (&lt;FLocat&gt;) or wrapped (&lt;FContent&gt;).
    </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:anyAttribute namespace="##other" processContents="lax"/>
</xsd:complexType>
<xsd:complexType name="structMapType">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">structMapType: Complex Type for Structural Maps
        The structural map (structMap) outlines a hierarchical structure for the original object
being encoded, using a series of nested div elements.
    </xsd:documentation>
    </xsd:annotation>
    <xsd:sequence>
        <xsd:element name="div" type="divType">
            <xsd:annotation>
                <xsd:documentation xml:lang="en">
                    The structural divisions of the hierarchical organization provided by a
&lt;structMap&gt; are represented by division &lt;div&gt; elements, which can be nested to any
depth. Each &lt;div&gt; element can represent either an intellectual (logical) division or a
physical division. Every &lt;div&gt; node in the structural map hierarchy may be connected
(via subsidiary &lt;mptr&gt; or &lt;fptr&gt; elements) to content files which represent that
div's portion of the whole document.
                </xsd:documentation>
            </xsd:annotation>
        </xsd:element>
    </xsd:sequence>
    <xsd:attribute name="ID" type="xsd:ID" use="optional">
        <xsd:annotation>
            <xsd:documentation xml:lang="en">ID (ID/O): This attribute uniquely identifies the
element within the METS document, and would allow the element to be referenced unambiguously
from another element or document via an IDREF or an XPTR. For more information on using ID
attributes for internal and external linking see Chapter 4 of the METS Primer.
        </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="TYPE" type="xsd:string" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">TYPE (string/O): Identifies the type of structure
represented by the &lt;structMap&gt;. For example, a &lt;structMap&gt; that represented a
purely logical or intellectual structure could be assigned a TYPE value of "logical" whereas a
&lt;structMap&gt; that represented a purely physical structure could be assigned a TYPE value
of "physical". However, the METS schema neither defines nor requires a common vocabulary for
this attribute. A METS profile, however, may well constrain the values for the
&lt;structMap&gt; TYPE.
    </xsd:documentation>
</xsd:annotation>
</xsd:attribute>
<xsd:attribute name="LABEL" type="xsd:string" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">LABEL (string/O): Describes the &lt;structMap&gt; to
viewers of the METS document. This would be useful primarily where more than one
&lt;structMap&gt; is provided for a single object. A descriptive LABEL value, in that case,

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could clarify to users the purpose of each of the available structMaps.
    </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:anyAttribute namespace="##other" processContents="lax"/>
</xsd:complexType>
<xsd:complexType name="divType">

    <xsd:annotation>
        <xsd:documentation xml:lang="en">divType: Complex Type for Divisions
            The METS standard represents a document structurally as a series of nested div
            elements, that is, as a hierarchy (e.g., a book, which is composed of chapters, which are
            composed of subchapters, which are composed of text). Every div node in the structural map
            hierarchy may be connected (via subsidiary mptra or fptra elements) to content files which
            represent that div's portion of the whole document.
    
```

SPECIAL NOTE REGARDING DIV ATTRIBUTE VALUES:

to clarify the differences between the ORDER, ORDERLABEL, and LABEL attributes for the <div> element, imagine a text with 10 roman numbered pages followed by 10 arabic numbered pages. Page iii would have an ORDER of "3", an ORDERLABEL of "iii" and a LABEL of "Page iii", while page 3 would have an ORDER of "13", an ORDERLABEL of "3" and a LABEL of "Page 3".

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        </xsd:documentation>
    </xsd:annotation>
    <xsd:sequence>
        <xsd:element name="mptr" minOccurs="0" maxOccurs="unbounded">
            <xsd:annotation>
                <xsd:documentation xml:lang="en">
                    Like the &lt;fptra&gt; element, the METS pointer element &lt;mptr&gt; represents
                    digital content that manifests its parent &lt;div&gt; element. Unlike the &lt;fptra&gt;, which
                    either directly or indirectly points to content represented in the &lt;fileSec&gt; of the
                    parent METS document, the &lt;mptr&gt; element points to content represented by an external
                    METS document. Thus, this element allows multiple discrete and separate METS documents to be
                    organized at a higher level by a separate METS document. For example, METS documents
                    representing the individual issues in the series of a journal could be grouped together and
                    organized by a higher level METS document that represents the entire journal series. Each of
                    the &lt;div&gt; elements in the &lt;structMap&gt; of the METS document representing the
                    journal series would point to a METS document representing an issue. It would do so via a
                    child &lt;mptr&gt; element. Thus the &lt;mptr&gt; element gives METS users considerable
                    flexibility in managing the depth of the &lt;structMap&gt; hierarchy of individual METS
                    documents. The &lt;mptr&gt; element points to an external METS document by means of an
                    xlink:href attribute and associated XLink attributes.
                
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                    </xsd:documentation>
                </xsd:annotation>
                <xsd:complexType>
                    <xsd:attribute name="ID" type="xsd:ID" use="optional">
                        <xsd:annotation>
                            <xsd:documentation xml:lang="en">ID (ID/O): This attribute uniquely identifies
                            the element within the METS document, and would allow the element to be referenced
                            unambiguously from another element or document via an IDREF or an XPTR. For more information
                            on using ID attributes for internal and external linking see Chapter 4 of the METS Primer.
                        
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                            </xsd:documentation>
                        </xsd:annotation>
                    </xsd:attribute>
                    <xsd:attributeGroup ref="LOCATION"/>
                    <xsd:attributeGroup ref="xlink:simpleLink"/>
                    <xsd:attribute name="CONTENTIDS" type="URIs" use="optional">
                        <xsd:annotation>
                            <xsd:documentation xml:lang="en">CONTENTIDS (URI/O): Content IDs for the
                            content represented by the &lt;mptr&gt; (equivalent to DIDL DII or Digital Item Identifier, a
                            unique external ID).
                        
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                            </xsd:documentation>
                        </xsd:annotation>
                    </xsd:attribute>
                </xsd:complexType>
            </xsd:element>
            <xsd:element name="fptra" minOccurs="0" maxOccurs="unbounded">
                <xsd:annotation>
                    <xsd:documentation xml:lang="en">
                        The &lt;fptra&gt; or file pointer element represents digital content that manifests
                        its parent &lt;div&gt; element. The content represented by an &lt;fptra&gt; element must
                        consist of integral files or parts of files that are represented by &lt;file&gt; elements in
                        the &lt;fileSec&gt;. Via its FILEID attribute, an &lt;fptra&gt; may point directly to a single
                        integral &lt;file&gt; element that manifests a structural division. However, an &lt;fptra&gt;
                        element may also govern an &lt;area&gt; element, a &lt;par&gt;, or a &lt;seq&gt; which in
                        turn would point to the relevant file or files. A child &lt;area&gt; element can point to part
                        of a &lt;file&gt; that manifests a division, while the &lt;par&gt; and &lt;seq&gt; elements
                    
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can point to multiple files or parts of files that together manifest a division. More than one <fptr> element can be associated with a <div> element. Typically sibling <fptr> elements represent alternative versions, or manifestations, of the same content

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    </xsd:documentation>
  </xsd:annotation>
<xsd:complexType>
  <xsd:choice>
    <xsd:element name="par" type="parType" minOccurs="0">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">
          The &lt;par&gt; or parallel files element aggregates pointers to files,
parts of files, and/or sequences of files or parts of files that must be played or displayed simultaneously to manifest a block of digital content represented by an &lt;fptr&gt; element. This might be the case, for example, with multi-media content, where a still image might have an accompanying audio track that comments on the still image. In this case, a &lt;par&gt; element would aggregate two &lt;area&gt; elements, one of which pointed to the image file and one of which pointed to the audio file that must be played in conjunction with the image. The &lt;area&gt; element associated with the image could be further qualified with SHAPE and COORDS attributes if only a portion of the image file was pertinent and the &lt;area&gt; element associated with the audio file could be further qualified with BETYPE, BEGIN, EXTTYPE, and EXTENT attributes if only a portion of the associated audio file should be played in conjunction with the image.
      </xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <xsd:element name="seq" type="seqType" minOccurs="0">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">
          The sequence of files element &lt;seq&gt; aggregates pointers to files,
parts of files and/or parallel sets of files or parts of files that must be played or displayed sequentially to manifest a block of digital content. This might be the case, for example, if the parent &lt;div&gt; element represented a logical division, such as a diary entry, that spanned multiple pages of a diary and, hence, multiple page image files. In this case, a &lt;seq&gt; element would aggregate multiple, sequentially arranged &lt;area&gt; elements, each of which pointed to one of the image files that must be presented sequentially to manifest the entire diary entry. If the diary entry started in the middle of a page, then the first &lt;area&gt; element (representing the page on which the diary entry starts) might be further qualified, via its SHAPE and COORDS attributes, to specify the specific, pertinent area of the associated image file.
      </xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <xsd:element name="area" type="areaType" minOccurs="0">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">
          The area element &lt;area&gt; typically points to content consisting of just a portion or area of a file represented by a &lt;file&gt; element in the &lt;fileSec&gt;. In some contexts, however, the &lt;area&gt; element can also point to content represented by an integral file. A single &lt;area&gt; element would appear as the direct child of a &lt;fptr&gt; element when only a portion of a &lt;file&gt;, rather than an integral &lt;file&gt;, manifested the digital content represented by the &lt;fptr&gt;. Multiple &lt;area&gt; elements would appear as the direct children of a &lt;par&gt; element or a &lt;seq&gt; element when multiple files or parts of files manifested the digital content represented by an &lt;fptr&gt; element. When used in the context of a &lt;par&gt; or &lt;seq&gt; element an &lt;area&gt; element can point either to an integral file or to a segment of a file as necessary.
      </xsd:documentation>
      </xsd:annotation>
    </xsd:element>
  </xsd:choice>
  <xsd:attribute name="ID" type="xsd:ID" use="optional">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">ID (ID/O): This attribute uniquely identifies the element within the METS document, and would allow the element to be referenced unambiguously from another element or document via an IDREF or an XPTR. For more information on using ID attributes for internal and external linking see Chapter 4 of the METS Primer.
    </xsd:documentation>
    </xsd:annotation>
  </xsd:attribute>
  <xsd:attribute name="FILEID" type="xsd:IDREF" use="optional">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">FILEID (IDREF/O): An optional attribute that provides the XML ID identifying the &lt;file&gt; element that links to and/or contains the digital content represented by the &lt;fptr&gt;. A &lt;fptr&gt; element should only have a FILEID attribute value if it does not have a child &lt;area&gt;, &lt;par&gt; or &lt;seq&gt; element. If it has a child element, then the responsibility for pointing to the relevant content falls to this child element or its descendants.
    </xsd:documentation>
    </xsd:annotation>
  </xsd:attribute>

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        </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="CONTENTIDS" type="URIs" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">CONTENTIDS (URI/O): Content IDs for the
content represented by the &lt;fptr&gt; (equivalent to DIDL DII or Digital Item Identifier, a
unique external ID).
        </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:anyAttribute namespace="#other" processContents="lax"/></xsd:anyAttribute>
</xsd:complexType>
</xsd:element>
<xsd:element name="div" type="divType" minOccurs="0" maxOccurs="unbounded"/>
</xsd:sequence>
<xsd:attribute name="ID" type="xsd:ID" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">ID (ID/O): This attribute uniquely identifies the
element within the METS document, and would allow the element to be referenced unambiguously
from another element or document via an IDREF or an XPTR. For more information on using ID
attributes for internal and external linking see Chapter 4 of the METS Primer.
        </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attributeGroup ref="ORDERLABELS"/>
<xsd:attribute name="DMDID" type="xsd:IDREFS" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">DMDID (IDREFS/O): Contains the ID attribute values
identifying the &lt;dmdSec&gt;, elements in the METS document that contain or link to
descriptive metadata pertaining to the structural division represented by the current
&lt;div&gt; element. For more information on using METS IDREFS and IDREF type attributes for
internal linking, see Chapter 4 of the METS Primer.
        </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="ADMID" type="xsd:IDREFS" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">ADMID (IDREFS/O): Contains the ID attribute values
identifying the &lt;rightsMD&gt;, &lt;sourceMD&gt;, &lt;techMD&gt; and/or &lt;digiprovMD&gt;
elements within the &lt;amdSec&gt; of the METS document that contain or link to administrative
metadata pertaining to the structural division represented by the &lt;div&gt; element.
Typically the &lt;div&gt; ADMID attribute would be used to identify the &lt;rightsMD&gt;
element or elements that pertain to the &lt;div&gt;, but it could be used anytime there was a
need to link a &lt;div&gt; with pertinent administrative metadata. For more information on
using METS IDREFS and IDREF type attributes for internal linking, see Chapter 4 of the METS
Primer.
        </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="TYPE" type="xsd:string" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">TYPE (string/O): An attribute that specifies the type
of structural division that the &lt;div&gt; element represents. Possible &lt;div&gt; TYPE
attribute values include: chapter, article, page, track, segment, section etc. METS places no
constraints on the possible TYPE values. Suggestions for controlled vocabularies for TYPE may
be found on the METS website.
        </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="CONTENTIDS" type="URIs" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">CONTENTIDS (URI/O): Content IDs for the content
represented by the &lt;div&gt; (equivalent to DIDL DII or Digital Item Identifier, a unique
external ID).
        </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute ref="xlink:label">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">xlink:label - an xlink label to be referred to by an
smLink element</xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
</xsd:complexType>
<xsd:complexType name="parType">
    <xsd:annotation>

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<xsd:documentation xml:lang="en">parType: Complex Type for Parallel Files
    The &lt;par&gt; or parallel files element aggregates pointers to files, parts of
    files, and/or sequences of files or parts of files that must be played or displayed
    simultaneously to manifest a block of digital content represented by an &lt;fptr&gt; element.
</xsd:documentation>
</xsd:annotation>
<xsd:choice maxOccurs="unbounded">
    <xsd:element name="area" type="areaType" minOccurs="0"/>
    <xsd:element name="seq" type="seqType" minOccurs="0"/>
</xsd:choice>
<xsd:attribute name="ID" type="xsd:ID" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">ID (ID/O): This attribute uniquely identifies the
        element within the METS document, and would allow the element to be referenced unambiguously
        from another element or document via an IDREF or an XPTR. For more information on using ID
        attributes for internal and external linking see Chapter 4 of the METS Primer.
    </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attributeGroup ref="ORDERLABELS"/>
<xsd:anyAttribute namespace="#other" processContents="lax"></xsd:anyAttribute>
</xsd:complexType>
<xsd:complexType name="seqType">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">seqType: Complex Type for Sequences of Files
            The seq element should be used to link a div to a set of content files when those
            files should be played/displayed sequentially to deliver content to a user. Individual
            &lt;area&gt; subelements within the seq element provide the links to the files or portions
            thereof.
        </xsd:documentation>
    </xsd:annotation>
    <xsd:choice maxOccurs="unbounded">
        <xsd:element name="area" type="areaType" minOccurs="0"/>
        <xsd:element name="par" type="parType" minOccurs="0"/>
    </xsd:choice>
    <xsd:attribute name="ID" type="xsd:ID" use="optional">
        <xsd:annotation>
            <xsd:documentation xml:lang="en">ID (ID/O): This attribute uniquely identifies the
            element within the METS document, and would allow the element to be referenced unambiguously
            from another element or document via an IDREF or an XPTR. For more information on using ID
            attributes for internal and external linking see Chapter 4 of the METS Primer.
        </xsd:documentation>
        </xsd:annotation>
    </xsd:attribute>
    <xsd:attributeGroup ref="ORDERLABELS"/>
    <xsd:anyAttribute namespace="#other" processContents="lax"></xsd:anyAttribute>
</xsd:complexType>
<xsd:complexType name="areaType">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">areaType: Complex Type for Area Linking
            The area element provides for more sophisticated linking between a div element and
            content files representing that div, be they text, image, audio, or video files. An area
            element can link a div to a point within a file, to a one-dimension segment of a file (e.g.,
            text segment, image line, audio/video clip), or a two-dimensional section of a file (e.g.,
            subsection of an image, or a subsection of the video display of a video file. The area
            element has no content; all information is recorded within its various attributes.
        </xsd:documentation>
    </xsd:annotation>
    <xsd:attribute name="ID" type="xsd:ID" use="optional">
        <xsd:annotation>
            <xsd:documentation xml:lang="en">ID (ID/O): This attribute uniquely identifies the
            element within the METS document, and would allow the element to be referenced unambiguously
            from another element or document via an IDREF or an XPTR. For more information on using ID
            attributes for internal and external linking see Chapter 4 of the METS Primer.
        </xsd:documentation>
        </xsd:annotation>
    </xsd:attribute>
    <xsd:attribute name="FILEID" type="xsd:IDREF" use="required">
        <xsd:annotation>
            <xsd:documentation xml:lang="en">FILEID (IDREF/R): An attribute which provides the XML
            ID value that identifies the &lt;file&gt; element in the &lt;fileSec&gt; that then points to
            and/or contains the digital content represented by the &lt;area&gt; element. It must contain
            an ID value represented in an ID attribute associated with a &lt;file&gt; element in the
            &lt;fileSec&gt; element in the same METS document.
        </xsd:documentation>
        </xsd:annotation>
    </xsd:attribute>

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<xsd:attribute name="SHAPE" use="optional">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">SHAPE (string/O): An attribute that can be used as in
    HTML to define the shape of the relevant area within the content file pointed to by the
    &lt;area&gt; element. Typically this would be used with image content (still image or video
    frame) when only a portion of an integral image map pertains. If SHAPE is specified then COORDS
    must also be present. SHAPE should be used in conjunction with COORDS in the manner defined
    for the shape and coords attributes on an HTML4 &lt;area&gt; element. SHAPE must contain one
    of the following values:
    RECT
    CIRCLE
    POLY
  </xsd:documentation>
</xsd:annotation>
<xsd:simpleType>
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="RECT"/>
    <xsd:enumeration value="CIRCLE"/>
    <xsd:enumeration value="POLY"/>
  </xsd:restriction>
</xsd:simpleType>
</xsd:attribute>
<xsd:attribute name="COORDS" type="xsd:string" use="optional">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">COORDS (string/O): Specifies the coordinates in an
    image map for the shape of the pertinent area as specified in the SHAPE attribute. While
    technically optional, SHAPE and COORDS must both appear together to define the relevant area
    of image content. COORDS should be used in conjunction with SHAPE in the manner defined for
    the COORDS and SHAPE attributes on an HTML4 &lt;area&gt; element. COORDS must be a comma
    delimited string of integer value pairs representing coordinates (plus radius in the case of
    CIRCLE) within an image map. Number of coordinates pairs depends on shape: RECT: x1, y1, x2,
    y2; CIRC: x1, y1; POLY: x1, y1, x2, y2, x3, y3 . . .
  </xsd:documentation>
</xsd:annotation>
</xsd:attribute>
<xsd:attribute name="BEGIN" type="xsd:string" use="optional">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">BEGIN (string/O): An attribute that specifies the
    point in the content file where the relevant section of content begins. It can be used in
    conjunction with either the END attribute or the EXTENT attribute as a means of defining the
    relevant portion of the referenced file precisely. It can only be interpreted meaningfully in
    conjunction with the BETYPE or EXTTYPE, which specify the kind of beginning/ending point
    values or beginning/extent values that are being used. The BEGIN attribute can be used with or
    without a companion END or EXTENT element. In this case, the end of the content file is
    assumed to be the end point.
  </xsd:documentation>
</xsd:annotation>
</xsd:attribute>
<xsd:attribute name="END" type="xsd:string" use="optional">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">END (string/O): An attribute that specifies the point
    in the content file where the relevant section of content ends. It can only be interpreted
    meaningfully in conjunction with the BETYPE, which specifies the kind of ending point values
    being used. Typically the END attribute would only appear in conjunction with a BEGIN element.
  </xsd:documentation>
</xsd:annotation>
</xsd:attribute>
<xsd:attribute name="BETYPE" use="optional">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">BETYPE: Begin/End Type.
    BETYPE (string/O): An attribute that specifies the kind of BEGIN and/or END values
    that are being used. For example, if BYTE is specified, then the BEGIN and END point values
    represent the byte offsets into a file. If IDREF is specified, then the BEGIN element
    specifies the ID value that identifies the element in a structured text file where the
    relevant section of the file begins; and the END value (if present) would specify the ID value
    that identifies the element with which the relevant section of the file ends. Must be one of
    the following values:
    BYTE
    IDREF
    SMIL
    MIDI
    SMPTE-25
    SMPTE-24
    SMPTE-DF30
    SMPTE-NDF30
    SMPTE-DF29.97
    SMPTE-NDF29.97

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TIME
TCF
XPTR
    </xsd:documentation>
</xsd:annotation>
<xsd:simpleType>
    <xsd:restriction base="xsd:string">
        <xsd:enumeration value="BYTE"/>
        <xsd:enumeration value="IDREF"/>
        <xsd:enumeration value="SMIL"/>
        <xsd:enumeration value="MIDI"/>
        <xsd:enumeration value="SMPTE-25"/>
        <xsd:enumeration value="SMPTE-24"/>
        <xsd:enumeration value="SMPTE-DF30"/>
        <xsd:enumeration value="SMPTE-NDF30"/>
        <xsd:enumeration value="SMPTE-DF29.97"/>
        <xsd:enumeration value="SMPTE-NDF29.97"/>
        <xsd:enumeration value="TIME"/>
        <xsd:enumeration value="TCF"/>
        <xsd:enumeration value="XPTR"/>
    </xsd:restriction>
</xsd:simpleType>
</xsd:attribute>
<xsd:attribute name="EXTENT" type="xsd:string" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">EXTENT (string/O): An attribute that specifies the extent of the relevant section of the content file. Can only be interpreted meaningfully in conjunction with the EXTTYPE which specifies the kind of value that is being used. Typically the EXTENT attribute would only appear in conjunction with a BEGIN element and would not be used if the BEGIN point represents an IDREF.
    </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="EXTTYPE" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">EXTTYPE (string/O): An attribute that specifies the kind of EXTENT values that are being used. For example if BYTE is specified then EXTENT would represent a byte count. If TIME is specified the EXTENT would represent a duration of time. EXTTYPE must be one of the following values:
    BYTE
    SMIL
    MIDI
    SMPTE-25
    SMPTE-24
    SMPTE-DF30
    SMPTE-NDF30
    SMPTE-DF29.97
    SMPTE-NDF29.97
    TIME
    TCF.
    </xsd:documentation>
    </xsd:annotation>
<xsd:simpleType>
    <xsd:restriction base="xsd:string">
        <xsd:enumeration value="BYTE"/>
        <xsd:enumeration value="SMIL"/>
        <xsd:enumeration value="MIDI"/>
        <xsd:enumeration value="SMPTE-25"/>
        <xsd:enumeration value="SMPTE-24"/>
        <xsd:enumeration value="SMPTE-DF30"/>
        <xsd:enumeration value="SMPTE-NDF30"/>
        <xsd:enumeration value="SMPTE-DF29.97"/>
        <xsd:enumeration value="SMPTE-NDF29.97"/>
        <xsd:enumeration value="TIME"/>
        <xsd:enumeration value="TCF"/>
    </xsd:restriction>
</xsd:simpleType>
</xsd:attribute>
<xsd:attribute name="ADMID" type="xsd:IDREFS" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">ADMID (IDREFS/O): Contains the ID attribute values identifying the &lt;rightsMD&gt;, &lt;sourceMD&gt;, &lt;techMD&gt; and/or &lt;digiprovMD&gt; elements within the &lt;amdSec&gt; of the METS document that contain or link to administrative metadata pertaining to the content represented by the &lt;area&gt; element. Typically the &lt;area&gt; ADMID attribute would be used to identify the &lt;rightsMD&gt; element or elements that pertain to the &lt;area&gt;, but it could be used anytime there was a need to link an &lt;area&gt; with pertinent administrative metadata. For more information on using

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METS IDREFS and IDREF type attributes for internal linking, see Chapter 4 of the METS Primer

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    </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="CONTENTIDS" type="URIs" use="optional">
    <xsd:documentation xml:lang="en">CONTENTIDS (URI/O): Content IDs for the content
represented by the &lt;area&gt; (equivalent to DIDL DII or Digital Item Identifier, a unique
external ID).
        </xsd:documentation>
    </xsd:annotation>
    </xsd:attribute>
<xsd:attributeGroup ref="ORDERLABELS"/>
<xsd:anyAttribute namespace="###other" processContents="lax"></xsd:anyAttribute>
</xsd:complexType>
<xsd:complexType name="structLinkType">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">structLinkType: Complex Type for Structural Map Linking
            The Structural Map Linking section allows for the specification of hyperlinks between
different components of a METS structure delineated in a structural map. structLink contains
a single, repeatable element, smLink. Each smLink element indicates a hyperlink between two
nodes in the structMap. The structMap nodes recorded in smLink are identified using their XML
ID attribute values.
        </xsd:documentation>
    </xsd:annotation>
<xsd:choice maxOccurs="unbounded">
    <xsd:element name="smLink">
        <xsd:annotation>
            <xsd:documentation xml:lang="en">
                The Structural Map Link element &lt;smLink&gt; identifies a hyperlink between two
nodes in the structural map. You would use &lt;smLink&gt;, for instance, to note the existence
of hypertext links between web pages, if you wished to record those links within METS. NOTE:
&lt;smLink&gt; is an empty element. The location of the &lt;smLink&gt; element to which the
&lt;smLink&gt; element is pointing MUST be stored in the xlink:href attribute.
            </xsd:documentation>
        </xsd:annotation>
        <xsd:complexType>
            <xsd:attribute name="ID" type="xsd:ID" use="optional">
                <xsd:annotation>
                    <xsd:documentation xml:lang="en">ID (ID/O): This attribute uniquely identifies
the element within the METS document, and would allow the element to be referenced
unambiguously from another element or document via an IDREF or an XPTR. For more information
on using ID attributes for internal and external linking see Chapter 4 of the METS Primer.
                    </xsd:documentation>
                </xsd:annotation>
            </xsd:attribute>
            <xsd:attribute ref="xlink:arcrole" use="optional">
                <xsd:annotation>
                    <xsd:documentation xml:lang="en">
                        xlink:arcrole - the role of the link, as per the xlink specification. See
http://www.w3.org/TR/xlink/
                    </xsd:documentation>
                </xsd:annotation>
            </xsd:attribute>
            <xsd:attribute ref="xlink:title" use="optional">
                <xsd:annotation>
                    <xsd:documentation xml:lang="en">
                        xlink:title - a title for the link (if needed), as per the xlink
specification. See http://www.w3.org/TR/xlink/
                    </xsd:documentation>
                </xsd:annotation>
            </xsd:attribute>
            <xsd:attribute ref="xlink:show" use="optional">
                <xsd:annotation>
                    <xsd:documentation xml:lang="en">
                        xlink:show - see the xlink specification at http://www.w3.org/TR/xlink/
                    </xsd:documentation>
                </xsd:annotation>
            </xsd:attribute>
            <xsd:attribute ref="xlink:actuate" use="optional">
                <xsd:annotation>
                    <xsd:documentation xml:lang="en">
                        xlink:actuate - see the xlink specification at http://www.w3.org/TR/xlink/
                    </xsd:documentation>
                </xsd:annotation>
            </xsd:attribute>
            <xsd:attribute ref="xlink:to" use="required">

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<xsd:annotation>
    <xsd:documentation xml:lang="en">
        xlink:to - the value of the label for the element in the structMap you are
linking to.
    </xsd:documentation>
</xsd:annotation>
</xsd:attribute>
<xsd:attribute ref="xlink:from" use="required">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">
            xlink:from - the value of the label for the element in the structMap you are
linking from.
        </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
</xsd:complexType>
</xsd:element>
<xsd:element name="smLinkGrp">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">
            The structMap link group element &lt;smLinkGrp&gt; provides an implementation of
xlink:extendLink, and provides xlink compliant mechanisms for establishing xlink:arcLink type
links between 2 or more &lt;div&gt; elements in &lt;structMap&gt; element(s) occurring within
the same METS document or different METS documents. The smLinkGrp could be used as an
alternative to the &lt;smLink&gt; element to establish a one-to-one link between &lt;div&gt;
elements in the same METS document in a fully xlink compliant manner. However, it can also be
used to establish one-to-many or many-to-many links between &lt;div&gt; elements. For example,
if a METS document contains two &lt;structMap&gt; elements, one of which represents a purely
logical structure and one of which represents a purely physical structure, the
&lt;smLinkGrp&gt; element would provide a means of mapping a &lt;div&gt; representing a
logical entity (for example, a newspaper article) with multiple &lt;div&gt; elements in the
physical &lt;structMap&gt; representing the physical areas that together comprise the logical
entity (for example, the &lt;div&gt; elements representing the page areas that together
comprise the newspaper article).
        </xsd:documentation>
    </xsd:annotation>
<xsd:complexType>
    <xsd:sequence>
        <xsd:element name="smLocatorLink" minOccurs="2" maxOccurs="unbounded" >
            <xsd:annotation>
                <xsd:documentation xml:lang="en">
                    The structMap locator link element &lt;smLocatorLink&gt; is of xlink:type
"locator". It provides a means of identifying a &lt;div&gt; element that will
participate in one or more of the links specified by means of &lt;smArcLink&gt; elements
within the same &lt;smLinkGrp&gt;. The participating &lt;div&gt; element that is represented
by the &lt;smLocatorLink&gt; is identified by means of a URI in the associate xlink:href
attribute. The lowest level of this xlink:href URI value should be a fragment identifier that
references the ID value that identifies the relevant &lt;div&gt; element. For example,
"xlink:href='#div20'" where "div20" is the ID value that
identifies the pertinent &lt;div&gt; in the current METS document. Although not required by
the xlink specification, an &lt;smLocatorLink&gt; element will typically include an
xlink:label attribute in this context, as the &lt;smArcLink&gt; elements will reference these
labels to establish the from and to sides of each arc link.
            </xsd:documentation>
        </xsd:annotation>
        <xsd:complexType>
            <xsd:attribute name="ID" type="xsd:ID">
                <xsd:annotation>
                    <xsd:documentation xml:lang="en">ID (ID/O): This attribute uniquely
identifies the element within the METS document, and would allow the element to be referenced
unambiguously from another element or document via an IDREF or an XPTR. For more information
on using ID attributes for internal and external linking see Chapter 4 of the METS
Primer.</xsd:documentation>
            </xsd:annotation>
            </xsd:attribute>
            <xsd:attributeGroup ref="xlink:locatorLink"/>
        </xsd:complexType>
    </xsd:element>
<xsd:element name="smArcLink" minOccurs="1" maxOccurs="unbounded">
    <xsd:complexType>
        <xsd:annotation>
            <xsd:documentation xml:lang="en">
                The structMap arc link element &lt;smArcLink&gt; is of xlink:type
"arc". It can be used to establish a traversal link between two &lt;div&gt; elements
as identified by &lt;smLocatorLink&gt; elements within the same smLinkGrp element. The
associated xlink:from and xlink:to attributes identify the from and to sides of the arc link
by referencing the xlink:label attribute values on the participating smLocatorLink elements.

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        </xsd:documentation>
    </xsd:annotation>
    <xsd:attribute name="ID" type="xsd:ID">
        <xsd:annotation>
            <xsd:documentation xml:lang="en">ID (ID/O): This attribute uniquely identifies the element within the METS document, and would allow the element to be referenced unambiguously from another element or document via an IDREF or an XPTR. For more information on using ID attributes for internal and external linking see Chapter 4 of the METS Primer.</xsd:documentation>
        </xsd:annotation>
    </xsd:attribute>
    <xsd:attributeGroup ref="xlink:arcLink"/>
    <xsd:attribute name="ARCTYPE" type="xsd:string">
        <xsd:annotation>
            <xsd:documentation xml:lang="en">ARCTYPE (string/O): The ARCTYPE attribute provides a means of specifying the relationship between the &lt;div&gt; elements participating in the arc link, and hence the purpose or role of the link. While it can be considered analogous to the xlink:arcrole attribute, its type is a simple string, rather than anyURI. ARCTYPE has no xlink specified meaning, and the xlink:arcrole attribute should be used instead of or in addition to the ARCTYPE attribute when full xlink compliance is desired with respect to specifying the role or purpose of the arc link.
        </xsd:documentation>
        </xsd:annotation>
    </xsd:attribute>
    <xsd:attribute name="ADMID" type="xsd:IDREFS" use="optional">
        <xsd:annotation>
            <xsd:documentation xml:lang="en">ADMID (IDREFS/O): Contains the ID attribute values identifying the &lt;sourceMD&gt;, &lt;techMD&gt;, &lt;digiprovMD&gt; and/or &lt;rightsMD&gt; elements within the &lt;amdSec&gt; of the METS document that contain or link to administrative metadata pertaining to &lt;smArcLink&gt;. Typically the &lt;smArcLink&gt; ADMID attribute would be used to identify one or more &lt;sourceMD&gt; and/or &lt;techMD&gt; elements that refine or clarify the relationship between the xlink:from and xlink:to sides of the arc. For more information on using METS IDREFS and IDREF type attributes for internal linking, see Chapter 4 of the METS Primer.
        </xsd:documentation>
        </xsd:annotation>
    </xsd:attribute>
    </xsd:complexType>
</xsd:element>
</xsd:sequence>
<xsd:attribute name="ID" type="xsd:ID"/>
<xsd:attribute name="ARCLINKORDER" default="unordered">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">ARCLINKORDER (enumerated string/O): ARCLINKORDER is used to indicate whether the order of the smArcLink elements aggregated by the smLinkGrp element is significant. If the order is significant, then a value of "ordered" should be supplied. Value defaults to "unordered". Note that the ARLINKORDER attribute has no xlink specified meaning.</xsd:documentation>
    </xsd:annotation>
    <xsd:simpleType>
        <xsd:restriction base="xsd:string">
            <xsd:enumeration value="ordered"/>
            <xsd:enumeration value="unordered"/>
        </xsd:restriction>
    </xsd:simpleType>
</xsd:attribute>
<xsd:attributeGroup ref="xlink:extendedLink"/>
</xsd:complexType>
</xsd:element>
</xsd:choice>
<xsd:attribute name="ID" type="xsd:ID" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">ID (ID/O): This attribute uniquely identifies the element within the METS document, and would allow the element to be referenced unambiguously from another element or document via an IDREF or an XPTR. For more information on using ID attributes for internal and external linking see Chapter 4 of the METS Primer.
    </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:anyAttribute namespace="##other" processContents="lax"/>
</xsd:complexType>
<xsd:complexType name="behaviorSecType">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">behaviorSecType: Complex Type for Behavior Sections Behaviors are executable code which can be associated with parts of a METS object. The behaviorSec element is used to group individual behaviors within a hierarchical structure. Such grouping can be useful to organize families of behaviors together or to indicate other

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relationships between particular behaviors.
  </xsd:documentation>
  </xsd:annotation>
  <xsd:sequence>
    <xsd:element name="behaviorSec" type="behaviorSecType" minOccurs="0"
maxOccurs="unbounded"/>
      <xsd:element name="behavior" type="behaviorType" minOccurs="0" maxOccurs="unbounded">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">
            A behavior element &lt;behavior&gt; can be used to associate executable behaviors
with content in the METS document. This element has an interface definition
&lt;interfaceDef&gt; element that represents an abstract definition of a set of behaviors
represented by a particular behavior. A &lt;behavior&gt; element also has a behavior mechanism
&lt;mechanism&gt; element, a module of executable code that implements and runs the behavior
defined abstractly by the interface definition.
          </xsd:documentation>
        </xsd:annotation>
      </xsd:element>
    </xsd:sequence>
    <xsd:attribute name="ID" type="xsd:ID" use="optional">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">ID (ID/O): This attribute uniquely identifies the
element within the METS document, and would allow the element to be referenced unambiguously
from another element or document via an IDREF or an XPTR. For more information on using ID
attributes for internal and external linking see Chapter 4 of the METS Primer.
      </xsd:documentation>
    </xsd:annotation>
  </xsd:attribute>
  <xsd:attribute name="CREATED" type="xsd:dateTime" use="optional">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">CREATED (dateTime/O): Specifies the date and time of
creation for the &lt;behaviorSec&gt;;
    </xsd:documentation>
  </xsd:annotation>
  </xsd:attribute>
  <xsd:attribute name="LABEL" type="xsd:string" use="optional">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">LABEL (string/O): A text description of the behavior
section.
    </xsd:documentation>
  </xsd:annotation>
  </xsd:attribute>
  <xsd:anyAttribute namespace="##other" processContents="lax"/>
</xsd:complexType>
<xsd:complexType name="behaviorType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">behaviorType: Complex Type for Behaviors
    A behavior can be used to associate executable behaviors with content in the METS
object. A behavior element has an interface definition element that represents an abstract
definition of the set of behaviors represented by a particular behavior. A behavior element
also has an behavior mechanism which is a module of executable code that implements and runs
the behavior defined abstractly by the interface definition.
  </xsd:documentation>
</xsd:annotation>
<xsd:sequence>
  <xsd:element name="interfaceDef" type="objectType" minOccurs="0">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">
        The interface definition &lt;interfaceDef&gt; element contains a pointer to an
abstract definition of a single behavior or a set of related behaviors that are associated
with the content of a METS object. The interface definition object to which the
&lt;interfaceDef&gt; element points using xlink:href could be another digital object, or some
other entity, such as a text file which describes the interface or a Web Services Description
Language (WSDL) file. Ideally, an interface definition object contains metadata that describes
a set of behaviors or methods. It may also contain files that describe the intended usage of
the behaviors, and possibly files that represent different expressions of the interface
definition.
      </xsd:documentation>
    </xsd:annotation>
  </xsd:element>
  <xsd:element name="mechanism" type="objectType">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">
        A mechanism element &lt;mechanism&gt; contains a pointer to an executable code
module that implements a set of behaviors defined by an interface definition. The
&lt;mechanism&gt; element will be a pointer to another object (a mechanism object). A
mechanism object could be another METS object, or some other entity (e.g., a WSDL file). A

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mechanism object should contain executable code, pointers to executable code, or specifications for binding to network services (e.g., web services).

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        </xsd:documentation>
        </xsd:annotation>
        </xsd:element>
    </xsd:sequence>
    <xsd:attribute name="ID" type="xsd:ID" use="optional">
        <xsd:annotation>
            <xsd:documentation xml:lang="en">ID (ID/O): This attribute uniquely identifies the element within the METS document, and would allow the element to be referenced unambiguously from another element or document via an IDREF or an XPTR. In the case of a &lt;behavior&gt; element that applies to a &lt;transformFile&gt; element, the ID value must be present and would be referenced from the transformFile/@TRANSFORMBEHAVIOR attribute. For more information on using ID attributes for internal and external linking see Chapter 4 of the METS Primer.
        </xsd:documentation>
        </xsd:annotation>
    </xsd:attribute>
    <xsd:attribute name="STRUCTID" type="xsd:IDREFS" use="optional">
        <xsd:annotation>
            <xsd:documentation xml:lang="en">STRUCTID (IDREFS/O): An XML IDREFS attribute used to link a &lt;behavior&gt; to one or more &lt;div&gt; elements within a &lt;structMap&gt; in the METS document. The content to which the STRUCTID points is considered input to the executable behavior mechanism defined for the behavior. If the &lt;behavior&gt; applies to one or more &lt;div&gt; elements, then the STRUCTID attribute must be present.
        </xsd:documentation>
        </xsd:annotation>
    </xsd:attribute>
    <xsd:attribute name="BTYPE" type="xsd:string" use="optional">
        <xsd:annotation>
            <xsd:documentation xml:lang="en">BTYPE (string/O): The behavior type provides a means of categorizing the related behavior.</xsd:documentation>
        </xsd:annotation>
    </xsd:attribute>
    <xsd:attribute name="CREATED" type="xsd:dateTime" use="optional">
        <xsd:annotation>
            <xsd:documentation xml:lang="en">CREATED (dateTime/O): The dateTime of creation for the behavior.
        </xsd:documentation>
        </xsd:annotation>
    </xsd:attribute>
    <xsd:attribute name="LABEL" type="xsd:string" use="optional">
        <xsd:annotation>
            <xsd:documentation xml:lang="en">LABEL (string/O): A text description of the behavior.
        </xsd:documentation>
        </xsd:annotation>
    </xsd:attribute>
    <xsd:attribute name="GROUPID" type="xsd:string" use="optional">
        <xsd:annotation>
            <xsd:documentation xml:lang="en">GROUPID (string/O): An identifier that establishes a correspondence between the given behavior and other behaviors, typically used to facilitate versions of behaviors.
        </xsd:documentation>
        </xsd:annotation>
    </xsd:attribute>
    <xsd:attribute name="ADMID" type="xsd:IDREFS" use="optional">
        <xsd:annotation>
            <xsd:documentation xml:lang="en">ADMID (IDREFS/O): An optional attribute listing the XML ID values of administrative metadata sections within the METS document pertaining to this behavior.
        </xsd:documentation>
        </xsd:annotation>
    </xsd:attribute>
</xsd:complexType>
<xsd:complexType name="objectType">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">objectType: complexType for interfaceDef and mechanism elements
    The mechanism and behavior elements point to external objects--an interface definition object or an executable code object respectively--which together constitute a behavior that can be applied to one or more &lt;div&gt; elements in a &lt;structMap&gt;.
    </xsd:documentation>
    </xsd:annotation>
    <xsd:attribute name="ID" type="xsd:ID" use="optional">
        <xsd:annotation>
            <xsd:documentation xml:lang="en">ID (ID/O): This attribute uniquely identifies the element within the METS document, and would allow the element to be referenced unambiguously from another element or document via an IDREF or an XPTR. For more information on using ID

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attributes for internal and external linking see Chapter 4 of the METS Primer.
    </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="LABEL" type="xsd:string" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">LABEL (string/0): A text description of the entity
represented.
            </xsd:documentation>
            </xsd:annotation>
    </xsd:attribute>
    <xsd:attributeGroup ref="LOCATION"/>
    <xsd:attributeGroup ref="xlink:simpleLink"/>
</xsd:complexType>
<xsd:complexType name="mdSecType">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">mdSecType: Complex Type for Metadata Sections
            A generic framework for pointing to/including metadata within a METS document, a la
Warwick Framework.
            </xsd:documentation>
    </xsd:annotation>
    <xsd:all>
        <xsd:element name="mdRef" minOccurs="0">
            <xsd:annotation>
                <xsd:documentation xml:lang="en">
                    The metadata reference element &lt;mdRef&gt; element is a generic element used
throughout the METS schema to provide a pointer to metadata which resides outside the METS
document. NB: &lt;mdRef&gt; is an empty element. The location of the metadata must be
recorded in the xlink:href attribute, supplemented by the XPTR attribute as needed.
                </xsd:documentation>
            </xsd:annotation>
        </xsd:element>
        <xsd:complexType>
            <xsd:attribute name="ID" type="xsd:ID" use="optional">
                <xsd:annotation>
                    <xsd:documentation xml:lang="en">ID (ID/0): This attribute uniquely identifies
the element within the METS document, and would allow the element to be referenced
unambiguously from another element or document via an IDREF or an XPTR. For more information
on using ID attributes for internal and external linking see Chapter 4 of the METS Primer.
                </xsd:documentation>
            </xsd:annotation>
        </xsd:attribute>
        <xsd:attributeGroup ref="LOCATION"/>
        <xsd:attributeGroup ref="xlink:simpleLink"/>
        <xsd:attributeGroup ref="METADATA"/>
        <xsd:attributeGroup ref="FILECORE"/>
        <xsd:attribute name="LABEL" type="xsd:string" use="optional">
            <xsd:annotation>
                <xsd:documentation xml:lang="en">LABEL (string/0): Provides a label to display
to the viewer of the METS document that identifies the associated metadata.
                </xsd:documentation>
            </xsd:annotation>
        </xsd:attribute>
        <xsd:attribute name="XPTR" type="xsd:string" use="optional">
            <xsd:annotation>
                <xsd:documentation xml:lang="en">XPTR (string/0): Locates the point within a
file to which the &lt;mdRef&gt; element refers, if applicable.
            </xsd:documentation>
        </xsd:annotation>
    </xsd:complexType>
</xsd:element>
<xsd:element name="mdWrap" minOccurs="0">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">
            A metadata wrapper element &lt;mdWrap&gt; provides a wrapper around metadata
embedded within a METS document. The element is repeatable. Such metadata can be in one of two
forms: 1) XML-encoded metadata, with the XML-encoding identifying itself as belonging to a
namespace other than the METS document namespace. 2) Any arbitrary binary or textual form,
PROVIDED that the metadata is Base64 encoded and wrapped in a &lt;binData&gt; element within
the internal descriptive metadata element.
        </xsd:documentation>
    </xsd:annotation>
    <xsd:complexType>
        <xsd:choice>
            <xsd:element name="binData" type="xsd:base64Binary" minOccurs="0">
                <xsd:annotation>
                    <xsd:documentation xml:lang="en">

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The binary data wrapper element &lt;binData&ampgt is used to contain Base64
encoded metadata.                                         </xsd:documentation>
    </xsd:annotation>
</xsd:element>
<xsd:element name="xmlData" minOccurs="0">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">
            The xml data wrapper element &lt;xmlData&ampgt is used to contain XML encoded
metadata. The content of an &lt;xmlData&ampgt element can be in any namespace or in no
namespace. As permitted by the XML Schema Standard, the processContents attribute value for
the metadata in an &lt;xmlData&ampgt is set to "lax". Therefore, if the source schema and its
location are identified by means of an XML schemaLocation attribute, then an XML processor
will validate the elements for which it can find declarations. If a source schema is not
identified, or cannot be found at the specified schemaLocation, then an XML validator will
check for well-formedness, but otherwise skip over the elements appearing in the
&lt;xmlData&ampgt element.
        </xsd:documentation>
    </xsd:annotation>
    <xsd:complexType>
        <xsd:sequence>
            <xsd:any namespace="#any" maxOccurs="unbounded" processContents="lax"/>
        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
</xsd:choice>
<xsd:attribute name="ID" type="xsd:ID" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">ID (ID/O): This attribute uniquely identifies
the element within the METS document, and would allow the element to be referenced
unambiguously from another element or document via an IDREF or an XPTR. For more information
on using ID attributes for internal and external linking see Chapter 4 of the METS Primer.
    </xsd:documentation>
</xsd:annotation>
</xsd:attribute>
<xsd:attributeGroup ref="METADATA"/>
<xsd:attributeGroup ref="FILECORE"/>
<xsd:attribute name="LABEL" type="xsd:string" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">LABEL: an optional string attribute providing a
label to display to the viewer of the METS document identifying the metadata.
    </xsd:documentation>
</xsd:annotation>
</xsd:attribute>
</xsd:complexType>
</xsd:element>
</xsd:all>
<xsd:attribute name="ID" type="xsd:ID" use="required">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">ID (ID/R): This attribute uniquely identifies the
element within the METS document, and would allow the element to be referenced unambiguously
from another element or document via an IDREF or an XPTR. The ID attribute on the
&lt;dmdSec&gt;, &lt;techMD&gt;, &lt;sourceMD&gt;, &lt;rightsMD&gt; and &lt;digiprovMD&gt;
elements (which are all of mdSecType) is required, and its value should be referenced from one
or more DMDID attributes (when the ID identifies a &lt;dmdSec&gt; element) or ADMID attributes
(when the ID identifies a &lt;techMD&gt;, &lt;sourceMD&gt;, &lt;rightsMD&gt; or
&lt;digiprovMD&gt; element) that are associated with other elements in the METS document. The
following elements support references to a &lt;dmdSec&gt; via a DMDID attribute: &lt;file&gt;,
&lt;stream&gt;, &lt;div&gt;. The following elements support references to &lt;techMD&gt;,
&lt;sourceMD&gt;, &lt;rightsMD&gt; and &lt;digiprovMD&gt; elements via an ADMID attribute:
&lt;metsHdr&gt;, &lt;dmdSec&gt;, &lt;techMD&gt;, &lt;sourceMD&gt;, &lt;rightsMD&gt;,
&lt;digiprovMD&gt;, &lt;fileGrp&gt;, &lt;file&gt;, &lt;stream&gt;, &lt;div&gt;, &lt;area&gt;,
&lt;behavior&gt;. For more information on using ID attributes for internal and external
linking see Chapter 4 of the METS Primer.
    </xsd:documentation>
</xsd:annotation>
</xsd:attribute>
<xsd:attribute name="GROUPID" type="xsd:string" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">GROUPID (string/O): This identifier is used to
indicate that different metadata sections may be considered as part of a group. Two metadata
sections with the same GROUPID value are to be considered part of the same group. For example
this facility might be used to group changed versions of the same metadata if previous
versions are maintained in a file for tracking purposes.
    </xsd:documentation>
</xsd:annotation>
</xsd:attribute>
<xsd:attribute name="ADMID" type="xsd:IDREFS" use="optional">

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<xsd:annotation>
  <xsd:documentation xml:lang="en">ADMID (IDREFS/O): Contains the ID attribute values of
the &lt;digiprovMD&gt;, &lt;techMD&gt;, &lt;sourceMD&gt; and/or &lt;rightsMD&gt; elements
within the &lt;amdSec&gt; of the METS document that contain administrative metadata pertaining
to the current mdSecType element. Typically used in this context to reference preservation
metadata (digiprovMD) which applies to the current metadata. For more information on using
METS IDREFS and IDREF type attributes for internal linking, see Chapter 4 of the METS Primer.
  </xsd:documentation>
</xsd:annotation>
</xsd:attribute>
<xsd:attribute name="CREATED" type="xsd:dateTime" use="optional">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">CREATED (dateTime/O): Specifies the date and time of
creation for the metadata.
    </xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="STATUS" type="xsd:string" use="optional">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">STATUS (string/O): Indicates the status of this
metadata (e.g., superseded, current, etc.).
    </xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:anyAttribute namespace="#other" processContents="lax" />
</xsd:complexType>
<xsd:complexType name="fileType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">fileType: Complex Type for Files
      The file element provides access to content files for a METS object. A file element
      may contain one or more FLocat elements, which provide pointers to a content file, and/or an
      FContent element, which wraps an encoded version of the file. Note that ALL FLocat and
      FContent elements underneath a single file element should identify/contain identical copies of
      a single file.
    </xsd:documentation>
  </xsd:annotation>

  <xsd:sequence>
    <xsd:element name="FLocat" minOccurs="0" maxOccurs="unbounded">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">
          The file location element &lt;FLocat&gt; provides a pointer to the location of a
          content file. It uses the XLink reference syntax to provide linking information indicating the
          actual location of the content file, along with other attributes specifying additional linking
          information. NOTE: &lt;FLocat&gt; is an empty element. The location of the resource pointed to
          MUST be stored in the xlink:href attribute.
        </xsd:documentation>
      </xsd:annotation>
    </xsd:complexType>
    <xsd:attribute name="ID" type="xsd:ID" use="optional">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">ID (ID/O): This attribute uniquely identifies
        the element within the METS document, and would allow the element to be referenced
        unambiguously from another element or document via an IDREF or an XPTR. For more information
        on using ID attributes for internal and external linking see Chapter 4 of the METS Primer.
      </xsd:documentation>
    </xsd:annotation>
  </xsd:attribute>
  <xsd:attributeGroup ref="LOCATION"/>
  <xsd:attribute name="USE" type="xsd:string" use="optional">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">USE (string/O): A tagging attribute to indicate
      the intended use of the specific copy of the file represented by the &lt;FLocat&gt; element
      (e.g., service master, archive master). A USE attribute can be expressed at the &lt;fileGrp&gt;
      level, the &lt;file&gt; level, the &lt;FLocat&gt; level and/or the &lt;FContent&gt; level. A
      USE attribute value at the &lt;fileGrp&gt; level should pertain to all of the files in the
      &lt;fileGrp&gt;. A USE attribute at the &lt;file&gt; level should pertain to all copies of
      the file as represented by subsidiary &lt;FLocat&gt; and/or &lt;FContent&gt; elements. A USE
      attribute at the &lt;FLocat&gt; or &lt;FContent&gt; level pertains to the particular copy of
      the file that is either referenced (&lt;FLocat&gt;) or wrapped (&lt;FContent&gt;).
    </xsd:documentation>
  </xsd:annotation>
  </xsd:attribute>
  <xsd:attributeGroup ref="xlink:simpleLink"/>
</xsd:complexType>
</xsd:element>
<xsd:element name="FContent" minOccurs="0">

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<xsd:annotation>
  <xsd:documentation xml:lang="en">
    The file content element &lt;FContent&gt; is used to identify a content file
    contained internally within a METS document. The content file must be either Base64 encoded
    and contained within the subsidiary &lt;binData&gt; wrapper element, or consist of XML
    information and be contained within the subsidiary &lt;xmlData&gt; wrapper element.
  </xsd:documentation>
</xsd:annotation>
<xsd:complexType>
  <xsd:choice>
    <xsd:element name="binData" type="xsd:base64Binary" minOccurs="0">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">
          A binary data wrapper element &lt;binData&gt; is used to contain a Base64
        encoded file.
      </xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <xsd:element name="xmlData" minOccurs="0">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">
          An xml data wrapper element &lt;xmlData&gt; is used to contain an XML
        encoded file. The content of an &lt;xmlData&gt; element can be in any namespace or in no
        namespace. As permitted by the XML Schema Standard, the processContents attribute value for
        the metadata in an &lt;xmlData&gt; element is set to "lax". Therefore, if the source schema
        and its location are identified by means of an xsi:schemaLocation attribute, then an XML
        processor will validate the elements for which it can find declarations. If a source schema is
        not identified, or cannot be found at the specified schemaLocation, then an XML validator will
        check for well-formedness, but otherwise skip over the elements appearing in the
        &lt;xmlData&gt; element.
      </xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <xsd:sequence>
      <xsd:any namespace="#any" maxOccurs="unbounded" processContents="lax"/>
    </xsd:sequence>
  </xsd:complexType>
  </xsd:element>
</xsd:choice>
<xsd:attribute name="ID" type="xsd:ID" use="optional">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">ID (ID/O): This attribute uniquely identifies
    the element within the METS document, and would allow the element to be referenced
    unambiguously from another element or document via an IDREF or an XPTR. For more information
    on using ID attributes for internal and external linking see Chapter 4 of the METS Primer.
  </xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="USE" type="xsd:string" use="optional">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">USE (string/O): A tagging attribute to indicate
    the intended use of the specific copy of the file represented by the &lt;FContent&gt; element
    (e.g., service master, archive master). A USE attribute can be expressed at the &lt;fileGrp&gt;
    level, the &lt;file&gt; level, the &lt;FLocat&gt; level and/or the &lt;FContent&gt; level. A
    USE attribute value at the &lt;fileGrp&gt; level should pertain to all of the files in the
    &lt;fileGrp&gt;. A USE attribute at the &lt;file&gt; level should pertain to all copies of
    the file as represented by subsidiary &lt;FLocat&gt; and/or &lt;FContent&gt; elements. A USE
    attribute at the &lt;FLocat&gt; or &lt;FContent&gt; level pertains to the particular copy of
    the file that is either referenced (&lt;FLocat&gt;) or wrapped (&lt;FContent&gt;).
  </xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
</xsd:complexType>
</xsd:element>
<xsd:element name="stream" minOccurs="0" maxOccurs="unbounded">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">
      A component byte stream element &lt;stream&gt; may be composed of one or more
      subsidiary streams. An MPEG4 file, for example, might contain separate audio and video
      streams, each of which is associated with technical metadata. The repeatable &lt;stream&gt;
      element provides a mechanism to record the existence of separate data streams within a
      particular file, and the opportunity to associate &lt;dmdSec&gt; and &lt;amdSec&gt; with those
      subsidiary data streams if desired. </xsd:documentation>
  </xsd:annotation>
  <xsd:complexType>
    <xsd:complexContent>
      <xsd:restriction base="xsd:anyType">

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<xsd:attribute name="ID" type="xsd:ID" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">ID (ID/O): This attribute uniquely
identifies the element within the METS document, and would allow the element to be referenced
unambiguously from another element or document via an IDREF or an XPTR. For more information
on using ID attributes for internal and external linking see Chapter 4 of the METS Primer.
    </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="streamType" type="xsd:string" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">streamType (string/O): The IANA MIME media
type for the bytestream.</xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="OWNERID" type="xsd:string" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">OWNERID (string/O): Used to provide a
unique identifier (which could include a URI) assigned to the file. This identifier may differ
from the URI used to retrieve the file.
    </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="ADMID" type="xsd:IDREFS" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">ADMID (IDREFS/O): Contains the ID attribute
values of the &lt;techMD&gt;, &lt;sourceMD&gt;, &lt;rightsMD&gt;, and/or &lt;digiprovMD&gt;
elements within the &lt;amdSec&gt; of the METS document that contain administrative metadata
pertaining to the bytestream. For more information on using METS IDREFS and IDREF type
attributes for internal linking, see Chapter 4 of the METS Primer.
    </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="DMDID" type="xsd:IDREFS" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">DMDID (IDREFS/O): Contains the ID attribute
values identifying the &lt;dmdSec&gt;, elements in the METS document that contain or link to
descriptive metadata pertaining to the content file stream represented by the current
&lt;stream&gt; element. For more information on using METS IDREFS and IDREF type attributes
for internal linking, see Chapter 4 of the METS Primer.
    </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="BEGIN" type="xsd:string" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">BEGIN (string/O): An attribute that
specifies the point in the parent &lt;file&gt; where the current &lt;stream&gt; begins. It can
be used in conjunction with the END attribute as a means of defining the location of the
stream within its parent file. However, the BEGIN attribute can be used with or without a
companion END attribute. When no END attribute is specified, the end of the parent file is
assumed also to be the end point of the stream. The BEGIN and END attributes can only be
interpreted meaningfully in conjunction with a BETYPE attribute, which specifies the kind of
beginning/ending point values that are being used.
    </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="END" type="xsd:string" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">END (string/O): An attribute that specifies
the point in the parent &lt;file&gt; where the &lt;stream&gt; ends. It can only be interpreted
meaningfully in conjunction with the BETYPE, which specifies the kind of ending point values
being used. Typically the END attribute would only appear in conjunction with a BEGIN
attribute.
    </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="BETYPE" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">BETYPE: Begin/End Type.
            BETYPE (string/O): An attribute that specifies the kind of BEGIN and/or
END values that are being used. Currently BYTE is the only valid value that can be used in
conjunction with nested &lt;file&gt; or &lt;stream&gt; elements.
    </xsd:documentation>
    </xsd:annotation>
<xsd:simpleType>
    <xsd:restriction base="xsd:string">
        <xsd:enumeration value="BYTE"/>

```

```

        </xsd:restriction>
    </xsd:simpleType>
    </xsd:attribute>
</xsd:restriction>
</xsd:complexContent>
</xsd:complexType>
</xsd:element>
<xsd:element name="transformFile" minOccurs="0" maxOccurs="unbounded">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">
            The transform file element &lt;transformFile&gt; provides a means to access any
            subsidiary files listed below a &lt;file&gt; element by indicating the steps required to
            "unpack" or transform the subsidiary files. This element is repeatable and might provide a
            link to a &lt;behavior&gt; in the &lt;behaviorSec&gt; that performs the
            transformation.</xsd:documentation>
    </xsd:annotation>
    <xsd:complexType>
        <xsd:complexContent>
            <xsd:restriction base="xsd:anyType">
                <xsd:attribute name="ID" type="xsd:ID" use="optional">
                    <xsd:annotation>
                        <xsd:documentation xml:lang="en">ID (ID/O): This attribute uniquely
                        identifies the element within the METS document, and would allow the element to be referenced
                        unambiguously from another element or document via an IDREF or an XPTR. For more information
                        on using ID attributes for internal and external linking see Chapter 4 of the METS Primer.
                    </xsd:documentation>
                </xsd:annotation>
            </xsd:attribute>
            <xsd:attribute name="TRANSFORMTYPE" use="required">
                <xsd:annotation>
                    <xsd:documentation xml:lang="en">TRANSFORMTYPE (string/R): Is used to
                    indicate the type of transformation needed to render content of a file accessible. This may
                    include unpacking a file into subsidiary filesstreams. The controlled value constraints for
                    this XML string include "decompression" and "decryption". Decompression is defined as the
                    action of reversing data compression, i.e., the process of encoding information using fewer
                    bits than an unencoded representation would use by means of specific encoding schemas.
                    Decryption is defined as the process of restoring data that has been obscured to make it
                    unreadable without special knowledge (encrypted data) to its original form.
                </xsd:documentation>
            </xsd:annotation>
            <xsd:simpleType>
                <xsd:restriction base="xsd:string">
                    <xsd:enumeration value="decompression"></xsd:enumeration>
                    <xsd:enumeration value="decryption"></xsd:enumeration>
                </xsd:restriction>
            </xsd:simpleType>
        </xsd:attribute>
        <xsd:attribute name="TRANSFORMALGORITHM" type="xsd:string" use="required">
            <xsd:annotation>
                <xsd:documentation xml:lang="en">TRANSFORM-ALGORITHM (string/R): Specifies
                the decompression or decryption routine used to access the contents of the file. Algorithms
                for compression can be either loss-less or lossy.</xsd:documentation>
            </xsd:annotation>
        </xsd:attribute>
        <xsd:attribute name="TRANSFORMKEY" type="xsd:string" use="optional">
            <xsd:annotation>
                <xsd:documentation xml:lang="en">TRANSFORMKEY (string/O): A key to be used
                with the transform algorithm for accessing the file's contents.</xsd:documentation>
            </xsd:annotation>
        </xsd:attribute>
        <xsd:attribute name="TRANSFORMBEHAVIOR" type="xsd:IDREF" use="optional">
            <xsd:annotation>
                <xsd:documentation xml:lang="en">TRANSFORMBEHAVIOR (string/O): An IDREF to a
                behavior element for this transformation.</xsd:documentation>
            </xsd:annotation>
        </xsd:attribute>
        <xsd:attribute name="TRANSFORMORDER" type="xsd:positiveInteger" use="required">
            <xsd:annotation>
                <xsd:documentation xml:lang="en">TRANSFORMORDER (positive-integer/R): The
                order in which the instructions must be followed in order to unpack or transform the container
                file.</xsd:documentation>
            </xsd:annotation>
        </xsd:attribute>
    </xsd:restriction>
</xsd:complexContent>
</xsd:complexType>
</xsd:element>

```

```

<xsd:element name="file" type="fileType" minOccurs="0"
maxOccurs="unbounded"></xsd:element>
</xsd:sequence>
<xsd:attribute name="ID" type="xsd:ID" use="required">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">ID (ID/R): This attribute uniquely identifies the
    element within the METS document, and would allow the element to be referenced unambiguously
    from another element or document via an IDREF or an XPTR. Typically, the ID attribute value on
    a &lt;file&gt; element would be referenced from one or more FILEID attributes (which are of
    type IDREF) on &lt;fptr&gt; and/or &lt;area&gt; elements within the &lt;structMap&gt;. Such
    references establish links between structural divisions (&lt;div&gt; elements) and the
    specific content files or parts of content files that manifest them. For more information on
    using ID attributes for internal and external linking see Chapter 4 of the METS Primer.
  </xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="SEQ" type="xsd:int" use="optional">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">SEQ (integer/O): Indicates the sequence of this
    &lt;file&gt; relative to the others in its &lt;fileGrp&gt;.
  </xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attributeGroup ref="FILECORE"></xsd:attributeGroup>
<xsd:attribute name="OWNERID" type="xsd:string" use="optional">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">OWNERID (string/O): A unique identifier assigned to
    the file by its owner. This may be a URI which differs from the URI used to retrieve the
    file.
  </xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="ADMID" type="xsd:IDREFS" use="optional">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">ADMID (IDREFS/O): Contains the ID attribute values of
    the &lt;techMD&gt;, &lt;sourceMD&gt;, &lt;rightsMD&gt; and/or &lt;digiprovMD&gt; elements
    within the &lt;amdSec&gt; of the METS document that contain administrative metadata pertaining
    to the file. For more information on using METS IDREFS and IDREF type attributes for internal
    linking, see Chapter 4 of the METS Primer.
  </xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="DMDID" type="xsd:IDREFS" use="optional">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">DMDID (IDREFS/O): Contains the ID attribute values
    identifying the &lt;dmdSec&gt;, elements in the METS document that contain or link to
    descriptive metadata pertaining to the content file represented by the current &lt;file&gt;
    element. For more information on using METS IDREFS and IDREF type attributes for internal
    linking, see Chapter 4 of the METS Primer.
  </xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="GROUPID" type="xsd:string" use="optional">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">GROUPID (string/O): An identifier that establishes a
    correspondence between this file and files in other file groups. Typically, this will be used
    to associate a master file in one file group with the derivative files made from it in other
    file groups.
  </xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="USE" type="xsd:string" use="optional">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">USE (string/O): A tagging attribute to indicate the
    intended use of all copies of the file aggregated by the &lt;file&gt; element (e.g., master,
    reference, thumbnails for image files). A USE attribute can be expressed at the &lt;fileGrp&gt;
    level, the &lt;file&gt; level, the &lt;FLocat&gt; level and/or the &lt;FContent&gt; level. A
    USE attribute value at the &lt;fileGrp&gt; level should pertain to all of the files in the
    &lt;fileGrp&gt;. A USE attribute at the &lt;file&gt; level should pertain to all copies of
    the file as represented by subsidiary &lt;FLocat&gt; and/or &lt;FContent&gt; elements. A USE
    attribute at the &lt;FLocat&gt; or &lt;FContent&gt; level pertains to the particular copy of
    the file that is either referenced (&lt;FLocat&gt;) or wrapped (&lt;FContent&gt;).
  </xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="BEGIN" type="xsd:string" use="optional">
  <xsd:annotation>

```

<xsd:documentation xml:lang="en">BEGIN (string/O): An attribute that specifies the point in the parent <file> where the current <file> begins. When used in conjunction with a <file> element, this attribute is only meaningful when this element is nested, and its parent <file> element represents a container file. It can be used in conjunction with the END attribute as a means of defining the location of the current file within its parent file. However, the BEGIN attribute can be used with or without a companion END attribute. When no END attribute is specified, the end of the parent file is assumed also to be the end point of the current file. The BEGIN and END attributes can only be interpreted meaningfully in conjunction with a BETYPE attribute, which specifies the kind of beginning/ending point values that are being used.

```

    </xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="END" type="xsd:string" use="optional">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">END (string/O): An attribute that specifies the point in the parent &lt;file&gt; where the current, nested &lt;file&gt; ends. It can only be interpreted meaningfully in conjunction with the BETYPE, which specifies the kind of ending point values being used. Typically the END attribute would only appear in conjunction with a BEGIN attribute.
  </xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="BETYPE" use="optional">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">BETYPE: Begin/End Type.
      BETYPE (string/O): An attribute that specifies the kind of BEGIN and/or END values that are being used. Currently BYTE is the only valid value that can be used in conjunction with nested &lt;file&gt; or &lt;stream&gt; elements.
  </xsd:documentation>
  </xsd:annotation>
  <xsd:simpleType>
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="BYTE"/>
    </xsd:restriction>
  </xsd:simpleType>
</xsd:attribute>
<xsd:anyAttribute namespace="###other" processContents="lax"/>
</xsd:complexType>

<xsd:simpleType name="URIs">
  <xsd:list itemType="xsd:anyURI"/>
</xsd:simpleType>

<xsd:attributeGroup name="ORDERLABELS">
  <xsd:attribute name="ORDER" type="xsd:integer" use="optional">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">ORDER (integer/O): A representation of the element's order among its siblings (e.g., its absolute, numeric sequence). For an example, and clarification of the distinction between ORDER and ORDERLABEL, see the description of the ORDERLABEL attribute.
    </xsd:documentation>
    </xsd:annotation>
  </xsd:attribute>
  <xsd:attribute name="ORDERLABEL" type="xsd:string" use="optional">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">ORDERLABEL (string/O): A representation of the element's order among its siblings (e.g., "xii"), or of any non-integer native numbering system. It is presumed that this value will still be machine actionable (e.g., it would support 'go to page ____' function), and it should not be used as a replacement/substitute for the LABEL attribute. To understand the differences between ORDER, ORDERLABEL and LABEL, imagine a text with 10 roman numbered pages followed by 10 arabic numbered pages. Page iii would have an ORDER of "3", an ORDERLABEL of "iii" and a LABEL of "Page iii", while page 3 would have an ORDER of "13", an ORDERLABEL of "3" and a LABEL of "Page 3".
    </xsd:documentation>
    </xsd:annotation>
  </xsd:attribute>
  <xsd:attribute name="LABEL" type="xsd:string" use="optional">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">LABEL (string/O): An attribute used, for example, to identify a &lt;div&gt; to an end user viewing the document. Thus a hierarchical arrangement of the &lt;div&gt; LABEL values could provide a table of contents to the digital content represented by a METS document and facilitate the users' navigation of the digital object. Note that a &lt;div&gt; LABEL should be specific to its level in the structural map. In the case of a book with chapters, the book &lt;div&gt; LABEL should have the book title and the chapter &lt;div&gt;; LABELs should have the individual chapter titles, rather than having the chapter &lt;div&gt; LABELs combine both book title and chapter title . For further of the
    </xsd:documentation>
    </xsd:annotation>
  </xsd:attribute>

```

```

distinction between LABEL and ORDERLABEL see the description of the ORDERLABEL attribute.
    </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
</xsd:attributeGroup>

<xsd:attributeGroup name="METADATA">
    <xsd:attribute name="MDTYPE" use="required">
        <xsd:annotation>
            <xsd:documentation xml:lang="en">MDTYPE (string/R): Is used to indicate the type of
the associated metadata. It must have one of the following values:
MARC: any form of MARC record
MODS: metadata in the Library of Congress MODS format
EAD: Encoded Archival Description finding aid
DC: Dublin Core
NISOIMG: NISO Technical Metadata for Digital Still Images
LC-AV: technical metadata specified in the Library of Congress A/V prototyping project
VRA: Visual Resources Association Core
TEIHDR: Text Encoding Initiative Header
DDI: Data Documentation Initiative
FGDC: Federal Geographic Data Committee metadata
LOM: Learning Object Model
PREMIS: PREservation Metadata: Implementation Strategies
PREMIS:OBJECT: PREMIS Object entity
PREMIS:AGENT: PREMIS Agent entity
PREMIS:RIGHTS: PREMIS Rights entity
PREMIS:EVENT: PREMIS Event entity
TEXTMD: textMD Technical metadata for text
METSRIGHTS: Rights Declaration Schema
ISO 19115:2003 NAP: North American Profile of ISO 19115:2003 descriptive metadata
EAC-CPF: Encoded Archival Context - Corporate Bodies, Persons, and Families
LIDO: Lightweight Information Describing Objects
OTHER: metadata in a format not specified above
        </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleType>
        <xsd:restriction base="xsd:string">
            <xsd:enumeration value="MARC"/>
            <xsd:enumeration value="MODS"/>
            <xsd:enumeration value="EAD"/>
            <xsd:enumeration value="DC"/>
            <xsd:enumeration value="NISOIMG"/>
            <xsd:enumeration value="LC-AV"/>
            <xsd:enumeration value="VRA"/>
            <xsd:enumeration value="TEIHDR"/>
            <xsd:enumeration value="DDI"/>
            <xsd:enumeration value="FGDC"/>
                <xsd:enumeration value="LOM"/>
            <xsd:enumeration value="PREMIS"/>
            <xsd:enumeration value="PREMIS:OBJECT"/>
            <xsd:enumeration value="PREMIS:AGENT"/>
            <xsd:enumeration value="PREMIS:RIGHTS"/>
            <xsd:enumeration value="PREMIS:EVENT"/>
            <xsd:enumeration value="TEXTMD"/>
            <xsd:enumeration value="METSRIGHTS"/>
            <xsd:enumeration value="ISO 19115:2003 NAP"/>
            <xsd:enumeration value="EAC-CPF"/>
                <xsd:enumeration value="LIDO"/>
            <xsd:enumeration value="OTHER"/>
        </xsd:restriction>
    </xsd:simpleType>
</xsd:attribute>
<xsd:attribute name="OTHERMDTYPE" type="xsd:string" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">OTHERMDTYPE (string/O): Specifies the form of
metadata in use when the value OTHER is indicated in the MDTYPE attribute.
    </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="MDTYPEVERSION" type="xsd:string" use="optional">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">MDTYPEVERSION(string/O): Provides a means for
recording the version of the type of metadata (as recorded in the MDTYPE or OTHERMDTYPE
attribute) that is being used. This may represent the version of the underlying data
dictionary or metadata model rather than a schema version. </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>

```

```

</xsd:attributeGroup>
<xsd:attributeGroup name="LOCATION">
  <xsd:attribute name="LOCTYPE" use="required">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">LOCTYPE (string/R): Specifies the locator type used
      in the xlink:href attribute. Valid values for LOCTYPE are:
        ARK
        URN
        URL
        PURL
        HANDLE
        DOI
        OTHER
    </xsd:documentation>
  </xsd:annotation>
  <xsd:simpleType>
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="ARK"/>
      <xsd:enumeration value="URN"/>
      <xsd:enumeration value="URL"/>
      <xsd:enumeration value="PURL"/>
      <xsd:enumeration value="HANDLE"/>
      <xsd:enumeration value="DOI"/>
      <xsd:enumeration value="OTHER"/>
    </xsd:restriction>
  </xsd:simpleType>
</xsd:attribute>
<xsd:attribute name="OTHERLOCTYPE" type="xsd:string" use="optional">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">OTHERLOCTYPE (string/O): Specifies the locator type
    when the value OTHER is used in the LOCTYPE attribute. Although optional, it is strongly
    recommended when OTHER is used.
  </xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
</xsd:attributeGroup>
<xsd:attributeGroup name="FILECORE">
  <xsd:attribute name="MIMETYPE" type="xsd:string" use="optional">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">MIMETYPE (string/O): The IANA MIME media type for the
      associated file or wrapped content. Some values for this attribute can be found on the IANA
      website.
    </xsd:documentation>
    </xsd:annotation>
  </xsd:attribute>
  <xsd:attribute name="SIZE" type="xsd:long" use="optional">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">SIZE (long/O): Specifies the size in bytes of the
      associated file or wrapped content.
    </xsd:documentation>
    </xsd:annotation>
  </xsd:attribute>
  <xsd:attribute name="CREATED" type="xsd:dateTime" use="optional">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">CREATED (dateTime/O): Specifies the date and time of
      creation for the associated file or wrapped content.
    </xsd:documentation>
    </xsd:annotation>
  </xsd:attribute>
  <xsd:attribute name="CHECKSUM" type="xsd:string" use="optional">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">CHECKSUM (string/O): Provides a checksum value for
      the associated file or wrapped content.
    </xsd:documentation>
    </xsd:annotation>
  </xsd:attribute>
  <xsd:attribute name="CHECKSUMTYPE" use="optional">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">CHECKSUMTYPE (enumerated string/O): Specifies the
      checksum algorithm used to produce the value contained in the CHECKSUM attribute.
      CHECKSUMTYPE must contain one of the following values:
        Adler-32
        CRC32
        Haval
        MD5
        MNP
        SHA-1
    </xsd:annotation>
  </xsd:attribute>
</xsd:attributeGroup>

```

```
SHA-256
SHA-384
SHA-512
TIGER
WHIRLPOOL
</xsd:documentation>
</xsd:annotation>
<xsd:simpleType>
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Adler-32"/>
    <xsd:enumeration value="CRC32"/>
    <xsd:enumeration value="HAVAL"/>
    <xsd:enumeration value="MD5"/>
    <xsd:enumeration value="MNP"/>
    <xsd:enumeration value="SHA-1"/>
    <xsd:enumeration value="SHA-256"/>
    <xsd:enumeration value="SHA-384"/>
    <xsd:enumeration value="SHA-512"/>
    <xsd:enumeration value="TIGER"/>
    <xsd:enumeration value="WHIRLPOOL"/>
  </xsd:restriction>
</xsd:simpleType>
</xsd:attribute>
</xsd:attributeGroup>
</xsd:schema>
```

2. Podmínky použití prvků schématu XML METS

Následující popis prvků schématu XML specifikuje použití těchto prvků za účelem vytvoření datového balíčku SIP. Pokud je u elementu uveden atribut, jde o prvek s povinným výskytem. Jestliže je u hodnoty atributu uvedeno, že „jeho konstrukce není předepsána“, znamená to, že hodnota není definována pravidly a že je možné ji vyplnit jakkoli s omezením pouze na validitu hodnoty proti schématu METS. Naopak popis „uváděná hodnota atributu je“ znamená, že hodnota je jediná přípustná a musí být v dokumentu XML výslově uvedena.

2.1. Kořenový element METS

Element definuje globální atributy.

| | |
|-----------------------|---|
| Element | <mets:mets> |
| Typ | složený datový typ (kontejner) |
| Povinnost | ANO |
| Opakovatelnost | NE |
| Atributy | <p>xsi:schemaLocation zaznamenává dvojici údajů, která spojuje adresu (URI) deklarovaného jmenného prostoru s umístěním příslušného schématu XML.
Uváděná hodnota atributu je "http://www.loc.gov/METS/
http://www.loc.gov/standards/mets/mets.xsd http://www.mvcr.cz/nsessss/v3
http://www.mvcr.cz/nsessss/v3/nsessss.xsd
http://nsess.public.cz/erms_trans/v_01_01 TransakcniProtokolNavrh_verze1.7.xsd".</p> <p>OBJID identifikuje balíček SIP. Jde o jedinečný identifikátor balíčku v rámci původce. Jeho konstrukce není předepsána.</p> <p>LABEL uvádí popis použití dokumentu XML. Povolené hodnoty jsou "Datový balíček pro provedení skartačního řízení" v případě dokumentů určených k posouzení ve skartačním řízení a "Datový balíček pro předávání dokumentů a jejich metadat do archivu" v případě dokumentů vybraných jako archiválie.</p> <p>xmlns:xsi zaznamenává adresu (URI) jmenného prostoru schématu XML. Tento jmenný prostor je identifikován prostřednictvím URL. Uváděná hodnota je "http://www.w3.org/2001/XMLSchema-instance".</p> <p>xmlns:mets zaznamenává adresu (URI) jmenného prostoru schématu METS. Uváděná hodnota je "http://www.loc.gov/METS/".</p> <p>xmlns:nsessss zaznamenává adresu (URI) jmenného prostoru schématu NSESSSS verze 3.0. Uváděná hodnota je "http://www.mvcr.cz/nsessss/v3".</p> <p>xmlns:tns zaznamenává adresu (URI) jmenného prostoru schématu ESS. Uváděná hodnota je "http://mvcr.cz/ess/v_1.0.0.0".</p> <p>xmlns:tp zaznamenává adresu (URI) jmenného prostoru schématu transakčního protokolu. Uváděná hodnota je "http://nsess.public.cz/erms_trans/v_01_01".</p> <p>xmlns:xlink zaznamenává adresu (URI) jmenného prostoru schématu XLink. Uváděná hodnota je "http://www.w3.org/1999/xlink".</p> |

2.2. Záhlaví METS

Element definuje subjekty, pro které je dokument XML určen, a informace o vytvoření a pozdějších úpravách dokumentu.

| | |
|-----------------------|---|
| Element | <mets:metsHdr> |
| Typ | složený datový typ (kontejner) |
| Povinnost | ANO |
| Opakovatelnost | NE |
| Atributy | LASTMODDATE zaznamenává datum poslední úpravy dokumentu XML ve formě, která je dána normou ISO 8601.

CREATEDATE zaznamenává datum vytvoření dokumentu XML ve formě, která je dána normou ISO 8601. |

2.3. Subjekt

Element zaznamenává subjekt, který dokument XML vytvořil. Uveden je původce i fyzická osoba odpovědná za tvorbu balíčku.

| | |
|-----------------------|--|
| Element | <mets:agent> |
| Typ | složený datový typ (kontejner) |
| Povinnost | ANO |
| Opakovatelnost | ANO |
| Atributy | TYPE definuje, o jaký typ subjektu jde. Povolené hodnoty jsou "ORGANIZATION" (korporace) a "INDIVIDUAL" (fyzická osoba).

ROLE definuje, jakou roli příslušný subjekt plní. Uváděná hodnota atributu je "CREATOR" (původce).

ID identifikuje subjekt. Jde o jedinečný identifikátor subjektu. Jeho konstrukce není předepsána. |

2.4. Název/jméno subjektu

Element definuje název nebo jméno subjektu.

| | |
|-----------------------|-----------------------|
| Element | <mets:name> |
| Typ | jednoduchý datový typ |
| Povinnost | ANO |
| Opakovatelnost | NE |

2.5. Poznámka subjektu

Element definuje další libovolnou charakteristiku subjektu.

| | |
|-----------------------|-----------------------|
| Element | <mets:note> |
| Typ | jednoduchý datový typ |
| Povinnost | NE |
| Opakovatelnost | ANO |

2.6. Sekce popisných metadat

Element definuje část dokumentu XML, která je určena pro vkládání popisných metadat. Ta jsou definována schématem NSESSS podle přílohy č. 2 národního standardu.

| | |
|-----------------------|---|
| Element | <mets:dmdSec> |
| Typ | složený datový typ (kontejner) |
| Povinnost | ANO |
| Opakovatelnost | NE |
| Atributy | ID identifikuje část dokumentu XML. Jde o jedinečný identifikátor části v celém dokumentu. Jeho konstrukce není předepsána. |

2.7. Vložená (popisná) metadata

Element zaznamenává vložená popisná metadata. Ta jsou definována schématem NSESSS.

| | |
|-----------------------|---|
| Element | <mets:mdWrap> |
| Typ | složený datový typ (kontejner) |
| Povinnost | ANO |
| Opakovatelnost | NE |
| Atributy | MDTYPEVERSION zaznamenává verzi schématu NSESSS. Uváděná hodnota je "3.0".

OTHERMDTYPE zaznamenává název schématu XML. Uváděná hodnota je "NSESSS".

MDTYPE zaznamenává název schématu XML z číselníku známých schémat. Uváděná hodnota je "OTHER".

MIMETYPE zaznamenává určení typu a souborového formátu metadat podle internetového standardu MIME. Uváděná hodnota je "text/xml". |

2.8. (popisná) Data XML

Element obsahuje vložená popisná metadata. Ta jsou definována schématem NSESSS. Do elementu jsou vkládány kořenové elementy schématu NSESSS s prefixem nsesss. V případě, že je základní entita NSESSS (tj. díl, dokument nebo spis) nebo její podřízené či nadřízené entity spojeny s jinou entitou prostřednictvím pevného křížového odkazu, je tato entita rovněž vložena do tohoto elementu.

| | |
|-----------------------|--------------------------------|
| Element | <mets:xmlData> |
| Typ | smíšený datový typ (kontejner) |
| Povinnost | ANO |
| Opakovatelnost | NE |

2.9. Sekce administrativních metadat

Element definuje část dokumentu XML, která je určena pro vkládání transakčního protokolu. Ten je definován schématem podle přílohy č. 6 národního standardu. Jeden element zaznamenává transakční protokol k jedné entitě/objektu.

| | |
|-----------------------|---|
| Element | <mets:amdSec> |
| Typ | složený datový typ (kontejner) |
| Povinnost | ANO |
| Opakovatelnost | ANO |
| Atributy | ID identifikuje část dokumentu XML. Jde o jedinečný identifikátor části v celém dokumentu. Jeho konstrukce není předepsána. |

2.10. Digitální provenience entity/objektu

Element definuje část dokumentu XML, která je určena pro vkládání informací o úkonech provedených s entitou/objektem.

| | |
|-----------------------|---|
| Element | <mets:digiprovMD> |
| Typ | složený datový typ (kontejner) |
| Povinnost | ANO |
| Opakovatelnost | NE |
| Atributy | ID identifikuje část dokumentu XML. Jde o jedinečný identifikátor části v celém dokumentu. Jeho konstrukce není předepsána. |

2.11. Vložená (administrativní) metadata

Element zaznamenává vložená popisná metadata. Ta jsou definována schématem NSESSS.

| | |
|-----------------------|--|
| Element | <mets:mdWrap> |
| Typ | složený datový typ (kontejner) |
| Povinnost | ANO |
| Opakovatelnost | NE |
| Atributy | MDTYPEVERSION zaznamenává verzi schématu transakčního protokolu. Uváděná hodnota je "1.0".

OTHERMDTYPE zaznamenává název schématu transakčního protokolu. Uváděná hodnota je "TP".

MDTYPE zaznamenává název schématu XML z číselníku známých schémat. Uváděná hodnota je "OTHER".

MIMETYPE zaznamenává určení typu a souborového formátu metadat podle internetového standardu MIME. Uváděná hodnota je "text/xml". |

2.12. (administrativní) Data XML

Element obsahuje vložená administrativní metadata. Ta jsou definována schématem transakčního protokolu. Do elementu je vkládán kořenový element TransakcniLogObjektu schématu s prefixem tp.

| | |
|-----------------------|--------------------------------|
| Element | <mets:xmlData> |
| Typ | smíšený datový typ (kontejner) |
| Povinnost | ANO |
| Opakovatelnost | NE |

2.13. Sekce souborů (komponent)

Element definuje část dokumentu XML, která je určena pro soubory (komponenty).

| | |
|-----------------------|---|
| Element | <mets:fileSec> |
| Typ | složený datový typ (kontejner) |
| Povinnost | NE; povinný je pouze v případě Datového balíčku pro předávání dokumentů a jejich metadat do archivu", který má obsahovat dokumenty v digitální podobě vybrané jako archiválie |
| Opakovatelnost | NE |

2.14. Skupina souborů (komponent)

Element zaznamenává soubory (komponenty).

| | |
|-----------------------|--------------------------------|
| Element | <mets:fileGrp> |
| Typ | složený datový typ (kontejner) |
| Povinnost | ANO |
| Opakovatelnost | NE |

2.15. Soubor (komponenta)

Element zaznamenává jednotlivý soubor (komponentu).

| | |
|-----------------------|--|
| Element | <mets:file> |
| Typ | složený datový typ (kontejner) |
| Povinnost | ANO |
| Opakovatelnost | ANO |
| Atributy | <p>ID identifikuje komponentu. Jde o jedinečný identifikátor komponenty v rámci dokumentu XML. Jeho konstrukce není předepsána.</p> <p>DMDID zaznamenává vazbu mezi popisními a administrativními metadaty komponenty. Obsahuje hodnotu atributu ID elementu <nsesss:Komponenta> příslušné komponenty.</p> <p>MIMETYPE zaznamenává určení typu a souborového formátu metadat podle internetového standardu MIME.</p> <p>CHECKSUMTYPE zaznamenává šifrovací algoritmus pro tvorbu otisku (hash) komponenty. Povolené hodnoty jsou SHA-256 a SHA-512.</p> <p>CHECKSUM zaznamenává otisk (hash) komponenty. Hodnota se zapisuje v rámci hexadecimální soustavy.</p> <p>SIZE zaznamenává velikost komponenty v bytech.</p> <p>CREATED zaznamenává datum vytvoření komponenty ve formě, která je dána normou ISO 8601.</p> |

2.16. Odkaz na soubor (komponentu)

Element zaznamenává obsah souboru (komponenty).

| | |
|-----------------------|---|
| Element | <mets:FLocat> |
| Typ | složený datový typ (kontejner) |
| Povinnost | ANO |
| Opakovatelnost | NE |
| Atributy | <p>xlink:type zaznamenává typ použitého způsobu odkazování. Uváděná hodnota atributu je "simple".</p> <p>xlink:href zaznamenává URL souboru (komponenty). Soubory reprezentující komponenty se ukládají do adresáře (složky) s názvem "komponenty".</p> <p>LOCTYPE zaznamenává typ umístění použitý v atributu xlink:href. Uváděná hodnota je "URL".</p> |

2.17. Strukturální mapa

Element definuje strukturu objektů a entit podle schématu NSESSS v hierarchické struktuře od nejvýše umístěného spisového plánu až po nejnižší umístěnou komponentu.

| | |
|-----------------------|--------------------------------|
| Element | <mets:structMap> |
| Typ | složený datový typ (kontejner) |
| Povinnost | ANO |
| Opakovatelnost | NE |

2.18. Objekt/entita

Element zaznamenává jednotlivý objekt nebo entitu podle schématu NSESSS.

| | |
|-----------------------|---|
| Element | <mets:div> |
| Typ | složený datový typ (kontejner) |
| Povinnost | ANO |
| Opakovatelnost | ANO |
| Atributy | <p>TYPE zaznamenává typ objektu nebo entity. Nejvyšší entitou je "spisový plán", dále "věcná skupina", "typový spis", "součást", "díl", "spis", "dokument" a nejnižším objektem je "komponenta".</p> <p>DMDID zaznamenává vazbu mezi popisnými a strukturálními metadaty entit/objektů. Obsahuje hodnotu atributu ID elementu <nsesss:SpisovyPlan>, <nsesss:VecnaSkupina>, <nsesss:TypovySpis>, <nsesss:Soucast>, <nsesss:Dil>, <nsesss:Spis>, <nsesss:Dokument> nebo <nsesss:Komponenta> příslušné entity/objektu.</p> <p>ADMID zaznamenává vazbu mezi administrativními a strukturálními metadaty entit/objektů. Obsahuje hodnotu atributu ID elementu <mets:amdSec> příslušné entity/objektu.</p> |

2.19. Vazba souboru (komponenty)

Element zaznamenává přiřazení souboru (komponenty) k příslušnému dokumentu. Uvádí se jen u dokumentů, které obsahují komponenty, a to pouze v rámci rodičovských elementů <mets:div TYPE="komponenta">.

| | |
|-----------------------|--|
| Element | <mets:fpTR> |
| Typ | složený datový typ (kontejner) |
| Povinnost | NE |
| Opakovatelnost | ANO |
| Atributy | FILEID identifikuje komponentu. Jde o jedinečný identifikátor v rámci dokumentu XML. Jeho konstrukce není předepsána. |