METS extension schemas: MODS

DLF Forum

Breakout #7

Nov. 5, 2002

Descriptive schemas in METS

◆ Dublin Core (simple)

◆ MARCXML

◆ MODS (proposed for endorsement)

Dublin Core

◆ Dublin Core simple schema endorsed

◆ Includes 15 unqualified Dublin Core elements

- Useful as general resource discovery elements

- Cannot include authorities, encoding schemes

- Does not allow for element substructure

What is MODS?

◆ Metadata Object Description Schema

◆ Bibliographic element set

◆ Initiative of Network Development and MARC Standards Office at LC

◆ Uses XML Schema

◆ Specifically for library applications, although could be used more widely

◆ A subset of MARC elements

Why MODS?

- Recognition that XML is the markup for the Web

- Harness the power of the MARC element set in an XML syntax

- Need for rich descriptive metadata in XML but simpler than full MARC

- Uses language based tags

- Complex digital library objects requiring more complex descriptive metadata structure

Potential Uses of MODS

- as a Z39.50 Next Generation specified format
- as an extension schema to METS
- to represent metadata for harvesting (OAI)
- for original resource description in XML syntax
- for representing a simplified MARC record in XML
- for metadata in XML that may be packaged with an electronic resource

Features of MODS

- Elements generally inherit semantics of MARC
- Some data has been repackaged; in some cases what is in several data elements in MARC may be brought together into one
- MODS does not assume the use of any specific cataloging code
- Reuse element descriptions throughout the schema
- Does not allow for lossless conversion from MARC

Status of MODS

- Version 1.2 available and out for 6-month review
- Changes being collected; version 2.0 will be available in Nov.-Dec.
- Part of the XML MARC tool kit
- LC responsible for maintenance

Advantages of MODS as METS extension schema

- ◆ MODS vs. Dublin Core simple
  - ■ Allows richer description with substructure
  - ■ Semantics that are a more natural fit in a library environment
- ◆ MODS vs. MARCXML
  - ■ More lightweight than MARCXML
  - ■ Uses language based tags and more readily understandable

MODS high-level elements

- TitleInfo (mandatory)
- Name
- Type of resource
- Genre
- PublicationInfo
- Language
- Physical description
- Abstract
- Table of contents
- Target audience

- Note
- Cartographics
- Subject
- Classification
- Related item
- Identifier
- Location
- Access conditions
- Extension
- RecordInfo

AV Prototype Project

- Exploring digital preservation for audio and video
- Digitally reformatted and born digital collections
- Use of METS with focus on metadata
- Where possible records converted from LC ILS into MODS; also allows original input
- METS/MODS tool

AV prototype project descriptive metadata

- MODS more robust than Dublin Core
- Better descriptive structure
- Retains more data in conversion from MARC
- Includes Record information
- Allows for embedding descriptive information for constituent parts (linked to structMap)

```xml
<mods:titleInfo>
<mods:title>[Portrait of Django Reinhardt, Aquarium, New York, N.Y., ca. Nov. 1946] [graphic]</mods:title></mods:titleInfo>
<mods:name type="personal">
   <mods:namePart>Gottlieb, William P</mods:namePart>
   <mods:namePart type="date">1917-</mods:namePart>
   <mods:role>photographer.</mods:role></mods:name>
<mods:typeOfResource>still image </mods:typeOfResource>
<mods:genre authority="marc">chart</mods:genre>
<mods:genre authority="gmgpc">Portrait photographs-1940-1950.</mods:genre>
<mods:genre authority="gmgpc">Film negatives-1940-1950.</mods:genre>
```

```xml
<mods:publicationInfo>
  <mods:placeCode authority="marc">xxu</mods:placeCode>
  <mods:dateIssued encoding="marc">1946</mods:dateIssued>
  <mods:issuance>monographic</mods:issuance>
  </mods:publicationInfo>
<mods:physicalDescription>
  <mods:extent>1 negative :  b&amp;w ; 2 1/4 x 2 ¼  in.
</mods:extent></mods:physicalDescription>
<mods:subject authority="lcsh"><mods:name type="personal">
<mods:namePart>Reinhardt, Django, 1910-1953
</mods:namePart></mods:name></mods:subject>
<mods:subject authority="lcsh"> <mods:topic>Jazz
musicians</mods:topic><mods:temporal>1940-1950.
</mods:temporal></mods:subject>
<mods:classification authority="lcc">LC-GLB23-0730
</mods:classification>
```

```xml
<mods:relatedItem type="host"><mods:titleInfo> <mods:title>William P. Gottlieb Collection</mods:title> </mods:titleInfo>

 <mods:identifier type="local">(DLC)   99-401005</mods:identifier>
</mods:relatedItem>

<mods:identifier type="uri"> http://hdl.loc.gov/loc.music/gottlieb.07301
</mods:identifier>

<mods:location>Library of Congress Prints & Photographs Division</mods:location>

<mods:location>Library of Congress Music Division</mods:location>

<mods:accessCondition type="restrictionOnAccess">Original negative not served.</mods:accessCondition>

<mods:recordInfo><mods:recordContentSource>DLC

</mods:recordContentSource><mods:recordCreationDate encoding="marc">990119</mods:recordCreationDate>

<mods:recordIdentifier source="DLC"> got99000730</mods:recordIdentifier></mods:recordInfo>
```