APSR METS Profile Development Project 2007

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The METS schema is a standard for encoding descriptive, administrative, and structural metadata regarding objects within a digital library, expressed using the XML schema language of the World Wide Web Consortium. The standard is maintained in the Network Development and Metadata Standards Office of the Library of Congress, and is being developed as an initiative of the Digital Library Federation.

TECHNICAL DOCUMENTATION
- METS Schema & Documentation
- METS Extension Schemes
- METS Example Documents
- METS Profiles
- METS Implementation Registry

COMMUNITY BUILDING
- METS Presentations
- METS Suggested Reading List
- METS Tools & METS Compatible Software
- METS Editorial Board
- Join METS Listserver
- METS Users' Archive
- METS Wiki

METS NEWS
- Final Version of METS Primer Now Available: The final version of the METS Primer and Reference Manual has just been released. See METS Primer.
- METS Editorial Board Meeting Minutes: The minutes are now available from the 2007-10-04 (teleconference) Board meeting. See Minutes.
- MIM Meeting Report and Presentations Available: The report from the 2007-08-18 MIM Implementers' Meeting held in Gottingen, Germany is now available for viewing, as well as the presentations from the meeting and METS Opening Day. See MIM Summary Report, Presentations.
- METS Registry Update: The latest edition includes new entries for METS implementations at the German National Library (Deutsche Nationalbibliothek), the Ministry of Culture of Spain, and Brown University Library. See METS Registry New Edition.
- New METS Version 1.0.6: The METS 1.0.6 schema, approved last November, has replaced the METS 1.5 schema. See Announcement.
- METS Documentation Page: The METS Schema and Documentation Web page has been re-organized for easier use. METS tutorials are now available in English, Italian, Portuguese, and German. See Documentation Page.
### Registered Profiles

**Index to registered METS Profiles by features used**

- Oxford Digital Library METS Profile [xml](http://www.loc.gov/standards/mets/metadef.html)
- OEB Imaged Object Profile [xml](http://www.loc.gov/standards/mets/metadef.html)
- UC Berkeley Text Object Profile [xml](http://www.loc.gov/standards/mets/metadef.html)
- Model Imaged Object Profile [xml](http://www.loc.gov/standards/mets/metadef.html)
- Model Imaged Text Object Profile [xml](http://www.loc.gov/standards/mets/metadef.html)
- The University of Wisconsin Digital Library Group - Greenstone Project METS Profile [xml](http://www.loc.gov/standards/mets/metadef.html)
- Library of Congress METS Profile for Audio Compact Discs [xml](http://www.loc.gov/standards/mets/metadef.html)
- BODS.Troy.net METS Profile [xml](http://www.loc.gov/standards/mets/metadef.html)
- Library of Congress METS Profile for Recorded Events [xml](http://www.loc.gov/standards/mets/metadef.html)
- CDA 7398 Profile - CONTENTdm Simple and Complex Objects [xml](http://www.loc.gov/standards/mets/metadef.html)
- Usage of METS 1.4 as part of the Universal Object Format [xml](http://www.loc.gov/standards/mets/metadef.html)
- University of California, San Diego Libraries - Simple Object Profile for audio, image, text, and video [xml](http://www.loc.gov/standards/mets/metadef.html)
- University of California, Berkeley Libraries - General METS Profile Version 1 [xml](http://www.loc.gov/standards/mets/metadef.html)
- Indiana University Digital Library Program - METS Requirements for Display Using METS Navigator [xml](http://www.loc.gov/standards/mets/metadef.html)
- University of Illinois at Urbana-Champaign, Grainger Engineering Library - ECHO Dep Generic METS Profile for Preservation and Digital Repository Interoperability [xml](http://www.loc.gov/standards/mets/metadef.html)
- University of Illinois at Urbana-Champaign, Grainger Engineering Library - ECHO Dep METS Profiles for Web Site Captures [xml](http://www.loc.gov/standards/mets/metadef.html)
- University of California, San Diego Libraries - UCSD Complex Object Profile [xml](http://www.loc.gov/standards/mets/metadef.html)
- National Library of Australia - Australian METS Profile 1.0 [xml](http://www.loc.gov/standards/mets/metadef.html)
A METS document

- Represents an object
- Describes the object and its parts
- Describes how the parts go together
AUSTRALIAN METS PROFILE SIP-DIP INTERACTION MODEL

Black Box
APSR/PRESTA Project 2006

- Developed a draft profile for the transfer of an object from one repository to another
- Provided best practice guidelines on using PREMIS to encode administrative metadata
The dilemma

- One core generic profile, defining all:
  - standard elements,
  - attributes,
  - extension schemas,
  - controlled vocabularies

- Profile adapted to fit content models
One core generic profile, PLUS

- Multiple content-specific profiles
  - Inherit generic rules
  - Content-specific usage of elements, attributes, schemas & vocabularies
What we came up with

Detail of Three-layered Model for using the Australian METS Profile

Generic Profile
- Self-describing document with capability to support submission delivery and transfer scenarios.
- Covers extension schemas and controlled vocabularies applicable to all content models.

Content-model specific sub-profile
- Inherits Generic Profile.
- Classifies requirements for specific content models.
- Based on test implementation.

Australian METS Profile

Australian Content Models
- `<div>` TYPE
- Attribute
- Vocabulary
- Defines vocabularies for describing object hierarchies.
- Scalable and extensible.

Implementation Profile
- Inherits Generic Profile.
- Cherry-picks content-model specific sub-profiles.
- Specifies exception extension schemas and controlled vocabularies.
- Refines inherited requirements.
- Details technical requirements.

David Pearson 12/11/07 Version 1.1
Taking a walk through the generic profile
Mandatory elements

METS DOCUMENT
<mets>

METS Header
<metsHdr>

Descriptive Metadata
<dmdSec>

Administrative Metadata
<amdSec>

File Metadata
<fileSec>

Structural Map
<structMap>

Structural Link Metadata
<structLink>

Behaviour Metadata
<behaviorSec>
Mandatory elements
METS root element

PROFILE: Australian METS Profile

TYPE: issue

OBJID: hdl:/102.100.391/Y35XYS0QH
METS Header
Descriptive metadata
Administrative metadata
Extension schemas

objectMD & sourceMD

rightsMD

diviprovMD

PREMIS object
Still images - MIX
Audio - AUDIOMD
Text - TEXTMD
Video - VIDEOMD

PREMIS rights
METS rights
XACML

PREMIS agent
PREMIS event
Administrative Metadata

METS DOCUMENT

<amdSec>

1

<techMD>

@ ID

<rightsMD>

@ ID

<sourceMD>

@ ID

<digiprovMD>

@ ID

<mdWrap>

@ MDTYPE

<xmldata>

<PREMIS>
File Metadata

METS DOCUMENT  
<met>

File Metadata  
<fileSec>

<fileGrp>

<file>

<fLocat>

<fContent>

URL

binData
Base64 encoded data

xmlData
xml encoded data

www.apsr.edu.au
<div TYPE Attribute Vocabulary

- Supports “real” requirements
- Scalable and extensible
- Focuses on terms that might be used to determine delivery behaviours
- LABEL and LABELNUMBER can be used for greater precision in citation and display
Next steps

- Maintenance Agency
- ANDS Repository Program
- ANDS ORCA Registry
- ANDS Persistent ID Service
- OpenURL METS Profile
Australian METS Profile

Overview

The Australian METS Profile describes the rules and requirements for using METS as an exchange format to support the collection and preservation of and access to content in Australian digital repositories. The profile was developed as part of the Australian Partnership for Sustainable Repositories (APSR) Project, a collaboration of the National Library of Australia, the Australian National University, the University of Sydney and the University of Queensland. In 2006 a draft profile for exchange of digital objects between repositories was developed as part of the APSR/PRESTA Project. This new version of the profile is based on and refines this work. More information about this project may be found on the APSR web site.

The Australian METS Profile has been developed as a generic profile for both Submission Information Packages and Dissemination Information Packages. It will form the apex of a three-layered model for using METS in a standards-based service-oriented way to describe objects in Australian repositories.

The aim of the generic profile is to abstract the common metadata requirements so that they can be inherited by content-model specific sub-profiles. As part of developing the generic profile we have identified and/or developed a number of controlled vocabularies for mandatory METS and PREMS elements. Most of these are documented within the profile itself but the edw- TYPE attribute vocabulary will be maintained separately on this site so that it can be further developed over time.

Several content models have been developed as part of the project based on content...