

The OhioLINK Digital Media Center Application Profile: A New Tool for Ohio Digital Collections

Ohio Valley Group of Technical Services Librarians Conference

“Technical Services: Rethink, Retool, Risk”

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Emily Hicks, University of Dayton

Jody Perkins, Miami University

Margaret Maurer, Kent State University

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The Digital Media Center



Electronic images, sounds, video, and other types of multimedia. Highlights:

- Pictures of artworks and architecture around the world, licensed from commercial sources or contributed by Ohio museums, libraries, and universities
- Educational videos from the Films for the Humanities & Sciences
- Historical photographs, letters, and other documents contributed by Ohio museums, libraries, and universities
- Satellite images of Ohio
- Bird songs

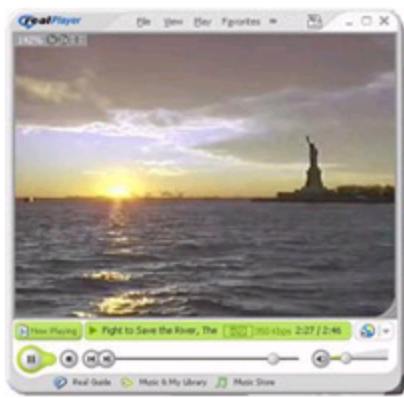
News

- [What's new in the DMC?](#)
- [Digital Resource Commons Update](#)

Examples of various DMC content:

Digital Video Media

[View Sample Clip](#) (can be played with the free RealPlayer® from <http://www.real.com>)



[The Fight to Save the River](#)
© 2002 Films for the Humanities & Sciences

History of the Digital Media Center

- 1997 – DMC Established using Bulldog software. Subject databases created
- 2002 – Bulldog purchased by Documentum
- 2002 – Metadata Task Force formed
- 2003 – OCDE Technology Initiatives grant application
- 2004 – DMC Application Profile approved by DMSC
- ????? – Digital Resource Commons (DRC)

Section 1: Introduction

Members of the Task Force:

Charly Bauer, OhioLINK

Alan Boyd, Oberlin College

Cliff Glaviano, Bowling Green State University

Emily Hicks, University of Dayton

Margaret Maurer, Kent State University

Jody Perkins, Miami University (co-chair)

Beth M. Russell, Ohio State University
(co-chair)

Task Force Charge:

- Provide direction to DMSC and OhioLINK on the development of the DMC
 - Become better informed about current metadata procedures and issues relating to the DMC
 - Survey/monitor current and emerging national/international metadata standards
- Educate members of the DMSC on findings

Task Force Charge, Continued

- Draft guidelines for the use of metadata in the DMC and to present these to the DMSC
- Advise those who have proposed projects for the DMC on metadata issues
- Determine initial and on-going training needs for implementing DMSC policies
- Make recommendations to the DMSC on ways that these needs could be met

DMC Local Collections

<i>DMC LOCAL Collections as of September 2004</i>					
<i>Institution</i>	<i>Contributors</i>	<i>Collection</i>	<i>Type of Material</i>	<i>Number submitted</i>	<i>Status</i>
OSU	Borror Lab of Bioacoustics	Borror Lab of Bioacoustics Recorded Animal Sounds	Audio - Recorded Animal Sounds	10,200	Will grow to 29,000
OSU	Ohio Agricultural Research and Development Center	Ohio Agricultural Experiment Station Forestry Image Collection	Images from glass-plate negatives	5,000	Approximately 400 to be added to complete
OSU	Center for Epigraphical Studies	Greek and Latin Squeezes (inscriptions)	Images of inscriptions	700	Will grow to more than 10,000 squeezes
UC	National Underground Freedom Center	William Seibert Collection	Documents and photographs	25	Thousands of documents and images will be added
UC	Design, Art, Architecture & Planning Library	Architecture of Cincinnati	Images from archival slides	300	Continues to grow as required
KSU	Department of Special Collections & Archives	Oral History Project: May 4, 1970 Collection. Residents of the community document their feelings on the shootings	Audio files	40	Cataloging underway

DMC Commercial Collections

<i>DMC COMMERCIAL COLLECTIONS as of September 2004</i>			
<i>Collection Name</i>	<i>Type of Material</i>	<i>Number of Items</i>	<i>Status</i>
Encyclopedia of Physics Demonstrations	Short videos of lab experiments	600	Set complete
LANDSAT 7 Satellite Images of Ohio	Multi-layered satellite data		New images every 16 days, weather permitting
Sanborn Fire Insurance Maps	Images of large scale street plans of Ohio cities from 1867-1970	40,000	Closed set
Digital Video Collection	Long-playing educational videos	1,113 VHS tapes	Expands monthly. May expand to collections of other vendors
Saskia Collection	Art images used in art history classes	3,000	
AMICO Library	Images of art and archaeology objects held in museums across N America	100,000	Grows by 20,000 images each year

DMC metadata issues

- Different collections, audiences and metadata schema
- Multiple types of data structures
- Discrepancies between databases

DMC metadata issues (Continued)

- Different database needs
- Data relationships across databases
- Lack of guidelines and documentation
- Some collections have proprietary metadata (e.g., AMICO)
- Contributors legacy data

Examination of DMC metadata

- Diversity
- Fields that cross collections
- Fields that don't cross collections

Examination of DMC - Conclusions

- Some unique fields
- Some common fields that map to Dublin Core, VRA Core and Western States Core
- The need for a core set of elements
- Determined that a cross-disciplinary core would be best

Best practices examined

- The **NINCH** Guide to Good Practice in the Digital Representation & Management of Cultural Heritage Materials
- Institute of Museum and Library Services Framework (**IMLS**)
- Computer Interchange of Museum Information (**CIMI**) Guide to Best Practice: Dublin Core

Appeal of best practices and established standards

- Carry you into the future
- Allow for federated searching
- Define relationships
- Allow for diversity within guidelines

Why a set of formal guidelines?

- Inconsistent data quality and element interpretation across projects
- Customized schemes increasingly a burden on OhioLINK staff



Building the DMC Core

Application Profiles

- What is an application profile?
- Why use an application profile?
 - Customize
 - Document
 - Guide
 - Reference

Why Dublin Core?

- Other standards too narrow
- Accepted as an international standard
- Foundation of OAI protocol for metadata harvesting
- In common use by the digital library community
- A number of best practice documents already published

Choosing a Model

- Why use a model?
- Western States

<http://www.cdpheritage.org/resource/metadata/wsdcmbp/index.html>

- Based on Dublin Core
- Multi-institutional
- Comprehensive
- User-friendly

The Core

- What is “The Core?”
 - Set of elements
 - Group of attributes or properties of a resource
 - A foundation from which local projects around the state will build collection specific metadata

Snapshot of Core Element Set

- **Title**
- **Creator**
- Contributor
- Date
- Description
- Subject
- Spatial Coverage
- Temporal Coverage
- Language
- Work Type
- Repository ID
- **Digital Publisher**
- Digital Creation Date
- Digitizing Equipment
- Asset Source
- Rights

Snapshot, cont.

- Collection Name
- OhioLINK Institution
- **Asset Type**
- **OID (Object Identifier)**
- **Permissions**

Element Specifications

- Element Name
- Definition
- Obligation
 - Mandatory, Required (if available), Optional
- Occurrence
 - Repeatable, Non-repeatable

Element Specifications, cont.

- Recommended Schemes
- Input Guidelines
 - General
 - Element-specific
- Examples
- Maps to DC Element

Why Input Guidelines?

- Broader audience
- Promote data consistency
- Anticipate questions
- Provide decision points
- Assist with data creation
- Reference external content standards

Title

Definition: A name given to a resource. Typically a title will be a name by which the resource is known. It may also be an identifying phrase or object name supplied by the holding institution.

Obligation: Mandatory

Occurrence: Non-Repeatable

Recommended Schemes: None.

Input Guidelines:

1. Identify and enter one Title element per record according to the guidelines that follow.
2. Transcribe title from the resource itself, such as book title, photograph caption, artist's title, object name, etc., using same punctuation that appears on the source.
3. When no title is found on the resource itself, use a title assigned by the holding institution or found in reference sources. If title must be created, make the title as descriptive as possible, avoiding generic terms such as Papers or Annual report. Use punctuation appropriate for English writing.
4. When possible, exclude initial articles from title. Exceptions might include when the article is an essential part of the title or when local practice requires use of initial articles.
5. Capitalize only the first letter of the first word of the title and of any proper names contained within the title.
6. Consult established cataloging rules such as Anglo-American Cataloguing Rules (AACR2) or Archives, Personal Papers, and Manuscripts (APPM) for more information.

Examples:

1. Channel crew poling ice blocks
2. DH-4 battle plane and Wright Model C Flyer share air space
3. Exhibition flight over Lake Erie
4. Great Ballcourt

Maps to DC Element: Title



Lessons Learned And Next Steps

Lessons learned:

- Standards are still important!

Lessons learned:

- The metadata universe is large and subject to change

Lessons learned:

- Metadata can be as simple or as complex as desired

Lessons learned:

- Best and worst thing about metadata is that it doesn't come with content standards

Lessons learned:

- Having a cataloging background was very helpful!

Lessons learned:

- This is an important first step, but it's only the first step!

Possible next steps:

- Metadata strategic plan
- Extended element sets for various subject and/or format areas
- Coordinating body
- Metadata practice community
- Contributor's discussion list
- MetaBuddy application
- Application profile repository

Recommended reading:

- *Metadata Principles and Practicalities.* Erik Duval, Wayne Hodgins, Stuart Sutton, and Stuart L. Weibel. D-Lib Magazine, April 2002. <http://www.dlib.org/dlib/april02/weibel/04weibel.html>
- *Keeping Dublin Core Simple: Cross-Domain Discovery or Resource Description?* Carl Lagoze. D-Lib Magazine, January 2001. <http://www.dlib.org/dlib/january01/lagoze/01lagoze.html>
- *Application profiles: mixing and matching metadata schemas.* Rachel Heery and Manjula Patel. Ariadne Issue 25, 24-Sep-2000. <http://www.ariadne.ac.uk /issue25/app-profiles/intro.html>

Contacts

Application Profile:

http://www.ohiolink.edu/media/dmcinfo/DMC_AP.pdf

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Parting quote:

*"We must free ourselves of the hope
that the sea will ever rest.*

*We must learn to sail
in high winds."*

~Leif Smith