



Moving Image Collections

OpenMIC

• • • •

Digital Library Federation Fall Forum

November 14, 2008

Jane Johnson Otto

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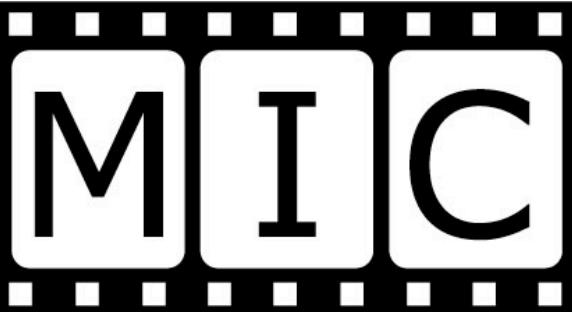
<http://mic.loc.gov>



Packard Campus

National Audio Visual Conservation Center

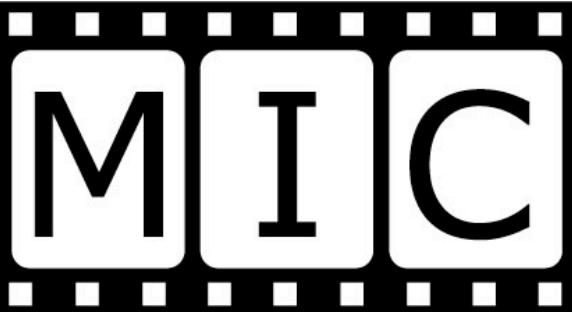




Problem: need to preserve

- 1988 National Film Preservation Act
- 1990s – mandated studies and plans
- 1997 – LC asks AMIA for prioritized action plan
- AMIA feasibility study





Solution: Identify holdings

AMIA identifies first & most crucial step:

- Document who has what
- Particularly unique titles





Solution: Identify holdings

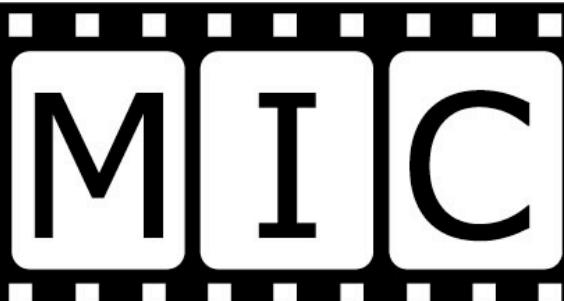
Enables archivists to

- identify past preservation work
- Identify emerging critical need
- Reduce duplication of effort
- Prevent loss through deterioration
- Ensure titles are preserved from the best surviving footage



Problem: diversity of the field

- lots of material
- analog and digital
- important content
- much of it deteriorating
- few resources
- few tools
- expertise and infrastructure often less than ideal
- diverse field (organizations, collections, missions, users)
- standards are a good thing



Solution: portal with tools

[MIC Home](#) | [About Us](#) | [Site Map](#) | [Participate](#) | [MIC Site Policies](#)

[Sponsors](#) | [Archive Explore](#) | [Collections Explore](#) | [Switch Portals](#)

Website Search:

Choose a Portal

Information especially for:



Search

Collections Explore

to search the MIC Catalog:

[Help](#) [Advanced Search](#)

Archive Explore

to search the MIC Directory:

[Help](#) [Advanced Search](#)



Using MIC

MIC lets you discover, locate, and even (in some cases) view moving images from around the world. MIC's two databases can be searched from anywhere on the site.

Use [Collection Explore](#) to search the MIC Union Catalog, listing moving images collected and managed by MIC participating organizations.

[About the Catalog](#)

[Who contributes records to the catalog?](#)

[How many titles are in the Catalog?](#)

Use [Archive Explore](#) to search the MIC Archive Directory, listing organizations that collect moving images.

[About the Directory](#)

[Who is in the MIC](#)



In the Spotlight



Feature Presentation!

[Provincial Archives of Alberta](#)

[Provincial Archives of Alberta](#)

[Video Aids to Film Preservation](#)

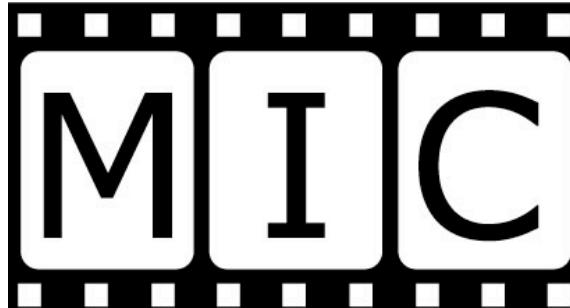
demonstrates basic film handling and preservation techniques.

[List your archive in the MIC Directory](#)



Solution: portal with tools

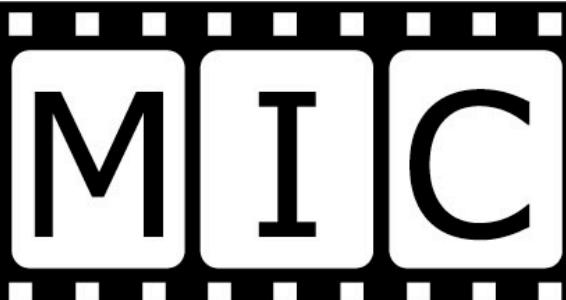
- AMIA-Library of Congress collaboration
- NSF-funded (National Science Digital Library:
<http://nsdl.org>) 
THE NATIONAL SCIENCE DIGITAL LIBRARY
- Three original university development partners
- Rutgers University Libraries, technology lead
- Grace Agnew, architect



Components

- Union catalog
- Archive directory
- Service providers directory
- Mapping utility
- Info resources
- Portal structure
- Cataloging utility

The screenshot shows the 'Collections Explore - Search the MIC Catalog' page. At the top, there is a navigation bar with links to 'MIC Home', 'General Users Portal Home', 'About Us', 'Site Map', 'Participate', and 'MIC Site Policies'. Below the navigation bar, there are links for 'Sponsors', 'Archive Explore', 'Collections Explore', and 'Switch Portals'. On the right side of the header, there is a 'General Users Portal' link. A search bar with a 'Search' button is also present. The main content area has three sections: 'Keyword search' (with an input field), 'in' (with a dropdown menu showing 'All fields' as the selected option, along with 'Title', 'Credits (person or organization)', 'Summary and contents', and 'Subject, genre, or form'), and 'Limit search by Organization' (with a dropdown menu listing various organizations like 'Academic Film Archive of North America', 'CNN Library', etc.). Below these sections, a note says 'Hold down CTRL key to select multiple items. Hold down the CTRL key to deselect items.' There is also a section for 'Limit search by Media Type' with a checkbox for 'Digital Video only'. At the bottom, there are links for 'About the MIC Catalog' and 'How many titles are in the Catalog?'.



Components

- Union catalog
- Archive directory
- Service providers directory
- Mapping utility
- Info resources
- Portal structure
- Cataloging utility

The screenshot shows the 'Archive Explore - Search the MIC Directory' page. At the top, there's a logo with 'MIC' in a film strip-like frame, followed by the text 'Moving Image Collections' and 'A Window to the World's Moving Images'. A 'General Users Portal' link is also visible. The main search area has a text input field, a 'Search for Archives' button, and a help link. It includes sections for 'Search Organizations by Name' (with a search bar and help text '(Use and, or, adj, and not)'), 'Browse Organizations' (with links to 'Browse alphabetically by name' and 'Browse by region'), and 'Search Organizations by Place and/or Type of Material'. This section contains two dropdown menus: one for 'Country' (listing Australia, Canada, Germany, Denmark, Great Britain, Guatemala, Mexico, Netherlands, New Zealand, Puerto Rico, United States) and another for 'State or Province (US and Canada only)' (listing Alberta, Alaska, British Columbia, California, Connecticut, District of Columbia, Delaware, Georgia, Idaho, Illinois, Kentucky, Massachusetts). A note says 'Hold down CTRL key to select multiple items. Hold down the CTRL key to deselect items.' At the bottom, there's a link 'And (Select all that apply or leave unchecked to select all.)'.



[MIC Home](#) | [General Users Portal Home](#) | [About Us](#) | [Site Map](#) | [Participate](#) | [MIC Site Policies](#)

[Sponsors](#) | [Archive Explore](#) | [Collections Explore](#) | [Switch Portals](#)

Website Search:

Collections Explore search for "whales" retrieved 53 records:

[1](#) [2](#) [3](#) [Next 20](#)

Jump to page:

16. [**Elephant relocation**](#)

Carrier 1/2 in ; on 1 cassette of 5 videocassettes , sd., col

Holding Organization Walter J. Brown Media Archives & Peabody Awards Collections

[Obtaining Moving Images](#)

17. [**Free Willy**](#)

Date 1993

Carrier 35 mm. ref print ; 12 reels of 12 on 6 (ca. 9990 ft.) ; sd., col

Holding Organization Library of Congress Motion Picture, Broadcasting, and Recorded Sound Division

[Obtaining Moving Images](#)

18. [**Gift of the whales**](#)

Date 1989

Carrier 1/2 in ; 1 videocassette of 1 (30 min.) ; sd., col

Holding Organization Pacific Film Archive



[MIC Home](#) | [General Users Portal Home](#) | [About Us](#) | [Site Map](#) | [Participate](#) | [MIC Site Policies](#)

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Carrier 1/2 in ; 1 videocassette of 1 (30 min.) ; sd., col

Holding Organization Pacific Film Archive

- Link to union catalog
- Community building
- LC & AMIA can target
 - educational needs
 - potential collaborations
 - emerging trends



Components

- Union catalog
- Archive directory
- Service providers directory
- Mapping utility
- Info resources
- Portal structure
- Cataloging utility

The screenshot shows the 'Vendor Explore - Search the MIC Service Providers Directory' page. At the top, there's a navigation bar with links to MIC Home, About Us, Site Map, Participate, and MIC Site Policies. Below that is a search bar labeled 'Website Search' with a 'Search' button. The main content area has three sections: 'Search Service Providers by Keyword' (with a text input field, 'Search for Service Provider' button, and '(Use and, or, and not)' help text), 'Browse Service Providers' (with links to 'Browse alphabetically by name' and 'Browse by region'), and 'Search Service Providers by Place, Type, or Service' (with dropdown menus for 'Country' (United States) and 'State or Province (US and Canada only)' (California, New Jersey), and a note about using the CTRL key for multiple selection).



Components

- Union catalog
- Archive directory
- Service providers directory
- **Mapping utility**
- Info resources
- Portal structure
- Cataloging utility

The screenshot shows the MIC portal homepage. At the top, there's a navigation bar with the MIC logo, the text "Moving Image Collections A Window to the World's Moving Images", a "General Users Portal" link, and a "Logout" button. Below the navigation bar, there are two main sections: "Map To MIC" on the right and "Manage Existing Records/Users" at the bottom right. The "Map To MIC" section contains a bulleted list of tasks: Review application, Review samples, Review/Edit mapping, View samples in MIC format, Ingest, and User view. The "Manage Existing Records/Users" section is currently empty.

Moving Image Collections
A Window to the World's Moving Images

[General Users Portal](#)

[Logout](#)

Map To MIC

- [Review application](#)
- [Review samples](#)
- [Review/Edit mapping](#)
- [View samples in MIC format](#)
- [Ingest](#)
- [User view](#)

Manage Existing Records/Users

MIC UNION CATALOG APPLICATION FORM

[MicCat 001](#)

Name of organization (from [MIC Archive Directory](#))



[MicCat 002](#)

Organization ID (from [MIC Archive Directory](#))



[MicCat 003](#)

Name of the person who serves as the MIC Union Catalog contact for the organization

[MicCat 004](#)

Title of the person who serves as the MIC Union Catalog contact for the organization

[MicCat 005](#)

Email of the person who serves as the MIC Union Catalog contact for the organization

[MicCat 006](#)

Telephone number of the MIC Union Catalog contact for the organization

SAMPLE FILE(S) FOR MIC UNION CATALOG

CatFileID: AkBeKYUK_001

Org ID: AkBeKYUK

Collection Name: KYUK new catalog recovered

Metadata Schema: In-house

Record Format: TXT (tab-delimited)

If you are sending txt file, please tell us the field names in exact order of your record in the txt, xls or cvs file (even if the field is empty), separate each field with ";" (example: ID;FilmTitle;ProductionDate). If you are sending in-house XML file, please enclose your XML Schema or DTD here.



Submit field list

Note: If your records are in a database management system such as FileMaker or Microsoft Access, export your records as a tab-delimited text file using the pulldown menus within the database program. Then upload the exported file.

Please check the file before sending: copy and paste the exported text file onto an Excel spreadsheet and confirm that the values in each field are correct; the number and order of the columns should match your field name list.

Sending Sample File(s)

Find the sample file on your local computer by using **Browse** button, OR enter the full file path (e.g.,
C:\marcrecord\sample.marc), then click **Upload** button:

Browse...



Send sample records

If you prefer to send CD or floppy disk, please send to the following address:

Jane Johnson Otto
MIC Administrator

1. Title

This data element contains the main title of the resource described in the cataloging record or metadata. If the record describes an individual moving image, that title will go here. If the record describes a group of moving images (a collection) the title which collectively describes the group will go here. If the record describes a single episode of a television series, theatrical serial, or newsreel, both the series and episode (issue) titles will typically go here. "Parallel titles" (equivalent titles in foreign languages) and "other titles" (i.e. subtitles), will also go here. Uniform titles, variant titles, titles of related works, and titles of works contained within the entity described, go elsewhere, as do series titles for educational series. This data element is not repeatable.

Examples:

- Plants and species of native grasslands
- Piper Heidsieck classic film collection; Early Hitchcock clips
- I love Lucy. 1954-05-17, Golf game

When this title appears in the MIC Union Catalog display, it is preceded by TITLE: Any punctuation which appears in your own title field will display, unless you ask MIC to drop the end punctuation. Any initial article which appears in your own title field will display in MIC. MIC files alphabetically; if the title is The Man of the Hour, the record will file under 'T' for 'The.' In MIC, the information contained in this field is retrieved in TITLE searches.

[SHOW ME A SAMPLE MIC DISPLAY](#)

MAPPING

Your equivalent of Title

MIC populates form
with archive's field list

NO MAP
Date of Last Revision
Date of First Entry
Control Number
Old Number
Title

(select multiple elements if necessary)

15. Summary

This data element contains any abstract, summary, or synopsis of the work described by the cataloging record. For a listing of contents or shot descriptions, use the CONTENTS field. This data element is repeatable; however, we recommend you record all summary information in a single SUMMARY field where possible.

Examples:

Demonstrates the structures related to the olfactory and limbic systems through diagrams, gross brain specimens and histologic slides on the serial sections of the brain.

Where this field appears in the MIC Union Catalog display, it is preceded by SUMMARY: In MIC, the information contained in this field is retrieved in SUMMARY AND CONTENTS searches.

[SHOW ME A SAMPLE MIC DISPLAY](#)

MAPPING

Your equivalent of **Summary**

- NO MAP
- Date of Last Revision
- Date of First Entry
- Control Number
- Old Number
- Name of Distributor

(select multiple elements if necessary)

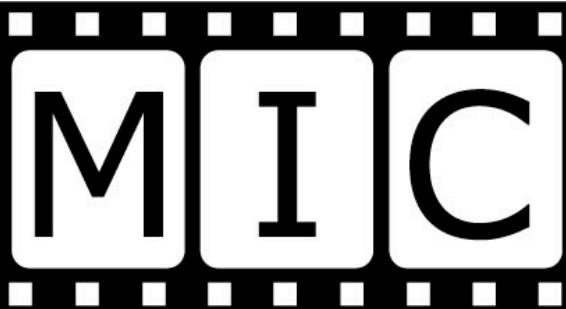
VALUE(S)

Description: This element could have multiple values: Yes No

If yes, multiple values are separated (delimited) by this character:

Example: Interview with U.S. Senator Mike Gravel on Section D-2 of the /

[Preview](#)



MIC Mapping Utility

- Small organizations
 - Holdings accessible on Web
 - Low cost
 - In accordance with standards (MODS, METS)
 - With existing personnel and infrastructure

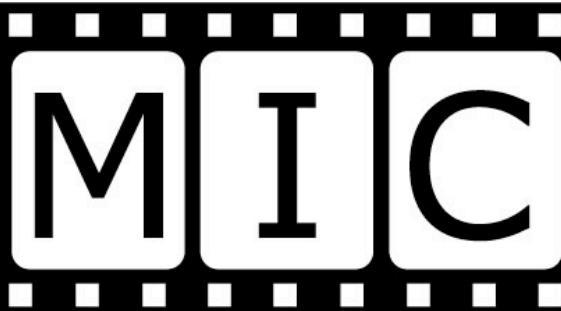
- Larger institutions
 - Multiple/legacy schema brought into conformance
 - Export in a single schema



Components

- Union catalog
- Archive directory
- Service providers directory
- Mapping utility
- **Info resources**
- Portal structure
- Cataloging utility

The screenshot shows a web page for 'Moving Image Collections' with a black header. The header features the 'MIC' logo on the left, followed by the text 'Moving Image Collections' and 'A Window to the World's Moving Images'. On the right, there is a 'Preservation Portal' section with the tagline 'Seeking Stability, Managing Change'. Below the header is a navigation bar with links to 'MIC Home', 'Preservation Portal Home', 'About Us', 'Site Map', 'Participate', 'MIC Site Policies', 'Sponsors', 'Archive Explore', 'Collections Explore', and 'Switch Portals'. A search bar is also present. The main content area has a pink header 'Welcome to the Preservation Portal!'. It contains a paragraph about the diversity of moving image and sound materials and their challenges, with a link to '[MORE]'. Below this are several blue hyperlinks: 'Overview of the Preservation Process', 'Preserving Motion Picture Sound', 'Reformatting: Terminology, Intent and Practices', 'A Cost Comparison and Analysis of Storage Options for Media Collections', 'Key Events in Moving Image Preservation', and 'Help save our moving image heritage'. At the bottom of the content area is a box containing the text 'To find people working in moving image preservation, connect with the Association of Moving Image Archivists' and a link to the 'Preservation Committee'.



Components

- Union catalog
- Archive directory
- Service providers directory
- Mapping utility
- Info resources
- **Portal structure**
- Cataloging utility

The screenshot shows the homepage of the MIC Archivists Portal. At the top, there's a black header bar with the 'MIC' logo on the left, the text 'Moving Image Collections A Window to the World's Moving Images' in the center, and 'Archivists Portal' on the right. Below the header is a navigation bar with links for 'MIC Home', 'Archivists Portal Home', 'About Us', 'Site Map', 'Participate', 'MIC Site Policies', 'Sponsors', 'Archive Explore', 'Collections Explore', and 'Switch Portals'. To the right of the navigation is a 'Website Search' field with a 'Search' button. The main content area has a yellow header 'Welcome to the MIC Archivists Portal!' followed by a paragraph of text about the portal's purpose. Below this is a section titled 'Choose a Portal' with a heading 'Information about:' and a film strip graphic containing five boxes labeled 'Cataloging & Metadata', 'Preservation', and 'Programming for Exhibition', along with other unlabeled film frames.



Components

- Union catalog
- Archive directory
- Service providers directory
- Mapping utility
- Info resources
- Portal structure
- Cataloging utility

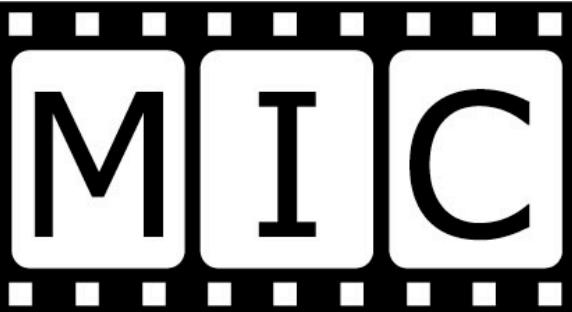
The screenshot shows the 'Moving Image Collections' portal. At the top, there's a black header bar with the 'MIC' logo, the text 'Moving Image Collections A Window to the World's Moving Images', and a 'General Users Portal' link. Below the header is a navigation bar with links for 'About MIC Union Catalog', 'MIC Portal', 'MIC Help', 'Contact Us', 'Log out', and a help icon. The main content area has a light gray background. It features a heading 'Welcome to the MIC Union Catalog Management System!' followed by a paragraph of text about the system's purpose. Below this is a section titled 'What would you like to do today?' containing five bullet points with sub-information:

- ♦ **Perform administrative tasks.**
Setup or edit organization, collection, or user information, transaction management, announcement, etc.
- ♦ **Prepare to run WMS for the first time.**
Configure the cataloging or digital file handling utilities according to organization or collection policies.
- ♦ **View or print reports.**
Get statistical reports about the digital objects in the system.
- ♦ **Select a collection and start working on digital objects.**
Upload digital files, do metadata cataloging, batch import or export, etc.



Metadata Strategy: Principles

- Promote metadata standards
- Embrace diversity
- Extend standard metadata use to all
- Enable exploration of new technologies
- Provide a model extensible to other archive and library communities



Metadata Strategy: Principles

Simultaneously address multiple goals of expanding

- Education
- Outreach
- Access
- Preservation
- Research

in culture and information technology



UC vs. CU (OpenMIC)

Union Catalog

- Primarily descriptive
- Batch import

Cataloging utility

- Direct input
- End-to-end management



Life Cycle Management

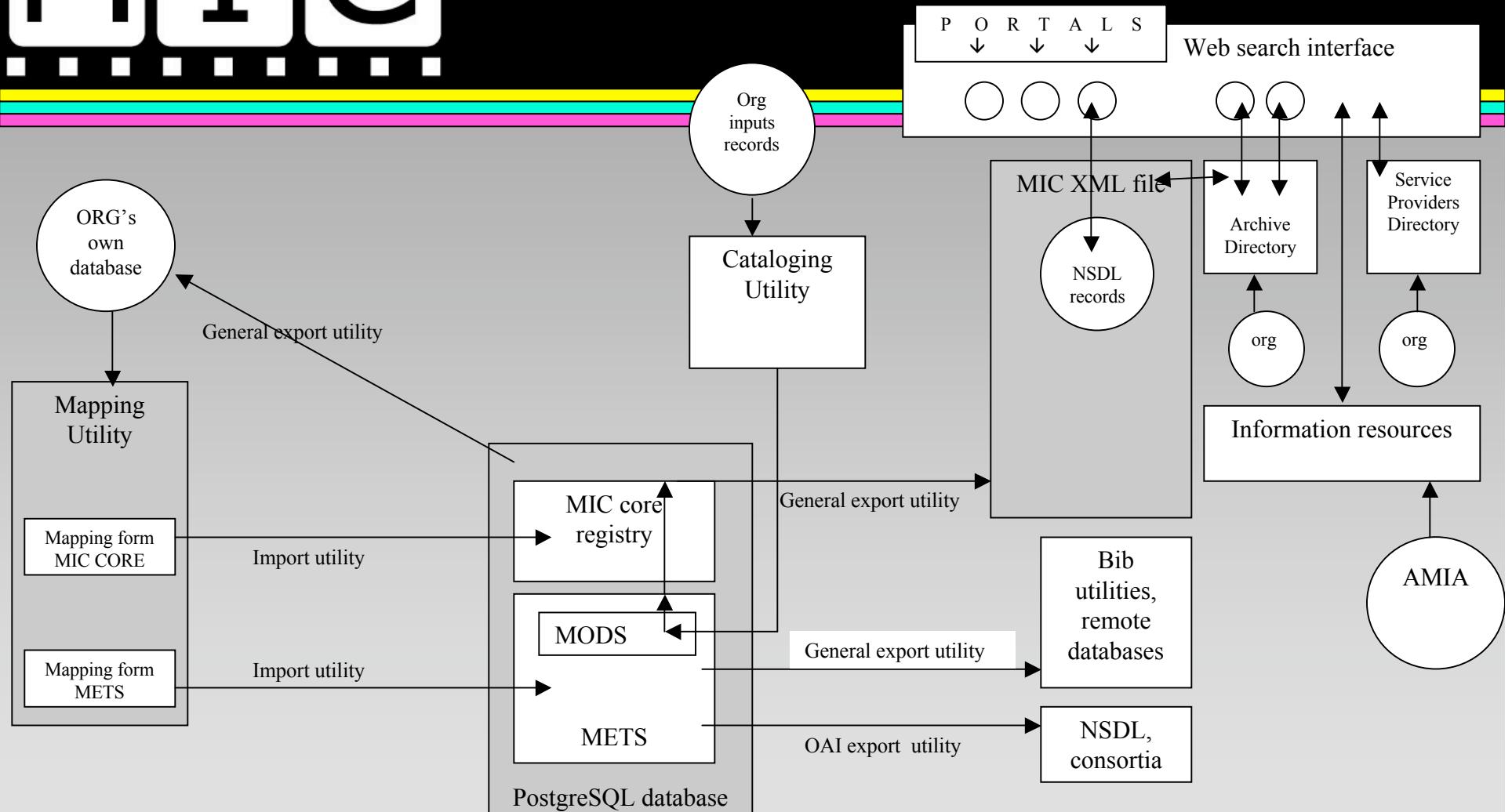
Acquisition
Description
Preservation
Access

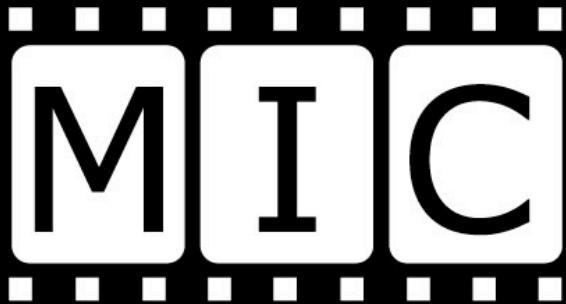
- Licensing
- Exhibition
- Research

Digitization

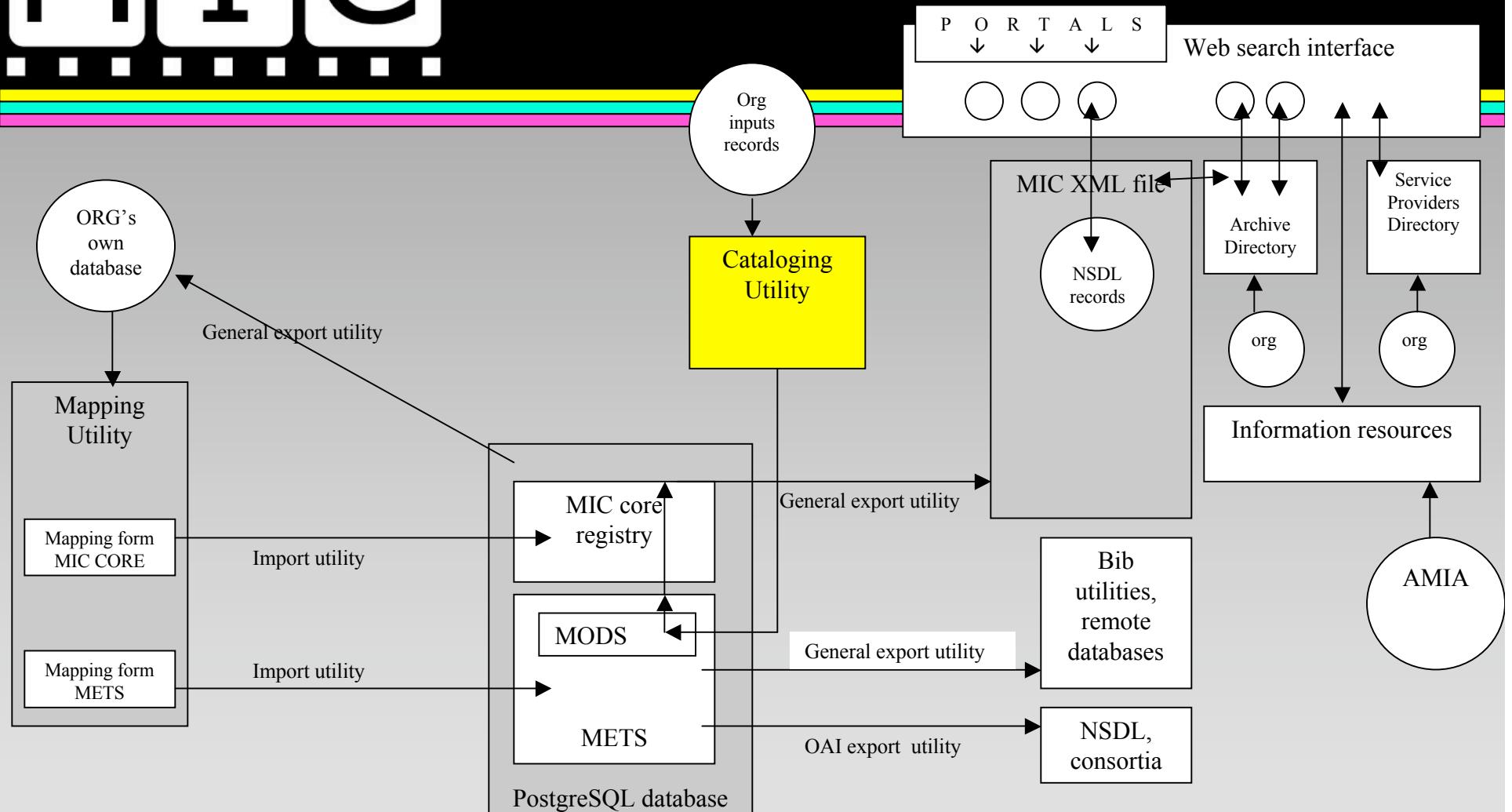


How MIC Works





How MIC Works



Moving Image Collections Management - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Getting Started Latest Headlines

pdf Search

MIC Home | MIC Resource Management

MIC Resource Management

You have logged in as the system super user. user's authorization/authentication information working there.

[Manage User Account](#)
[Review and Manage MIC Archive Directory](#)
[Review and Manage MIC Service Provider Di](#)
[Manage MIC Union Catalog](#)

- Complete metadata creation system
- Web-based (low overhead, infrastructure requirements)
- All formats (print and non-print)
- Open source
- Based on Rutgers WMS
- Built out moving image/recorded sound technical metadata
- Accommodates all materials
- Import/export utilities
- Configurable

Moving Image Collections Management - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Getting Started Latest Headlines

pdf Search PDF

OpenMIC

MIC Home | MIC Resource Management

MIC Resource Management

You have logged in as the system super user. You can either review and edit user's authorization/authentication information or go to dwms and start working there.

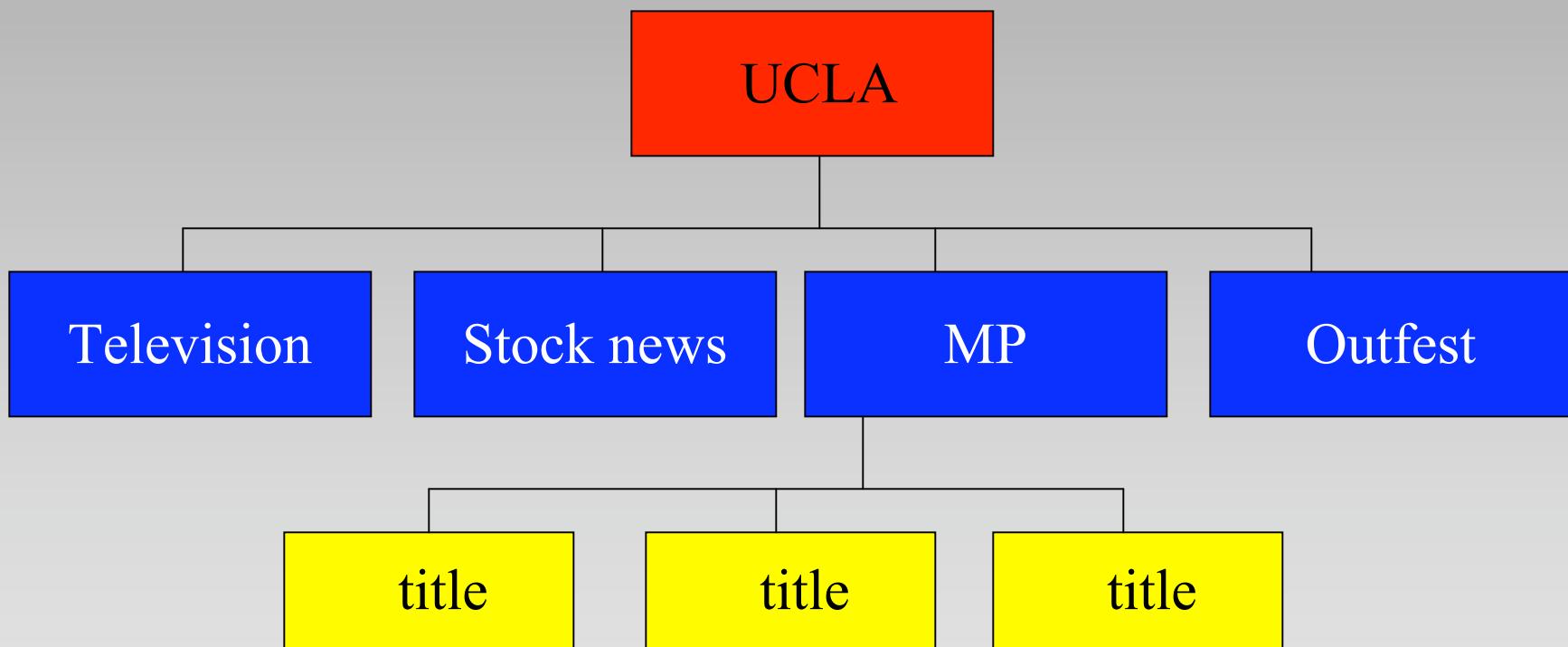
Manage User Account
Review and Manage MIC Archive Directory
Review and Manage MIC Service Provider Directory
Manage MIC Union Catalog

Cancel

- Organization
- Collection (organizing mechanism)
- Resource



Org-Collection-Resource



Moving Image Collections Management - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Getting Started Latest Headlines

pdf Search PDF

OpenMIC

MIC Home | MIC Resource Management

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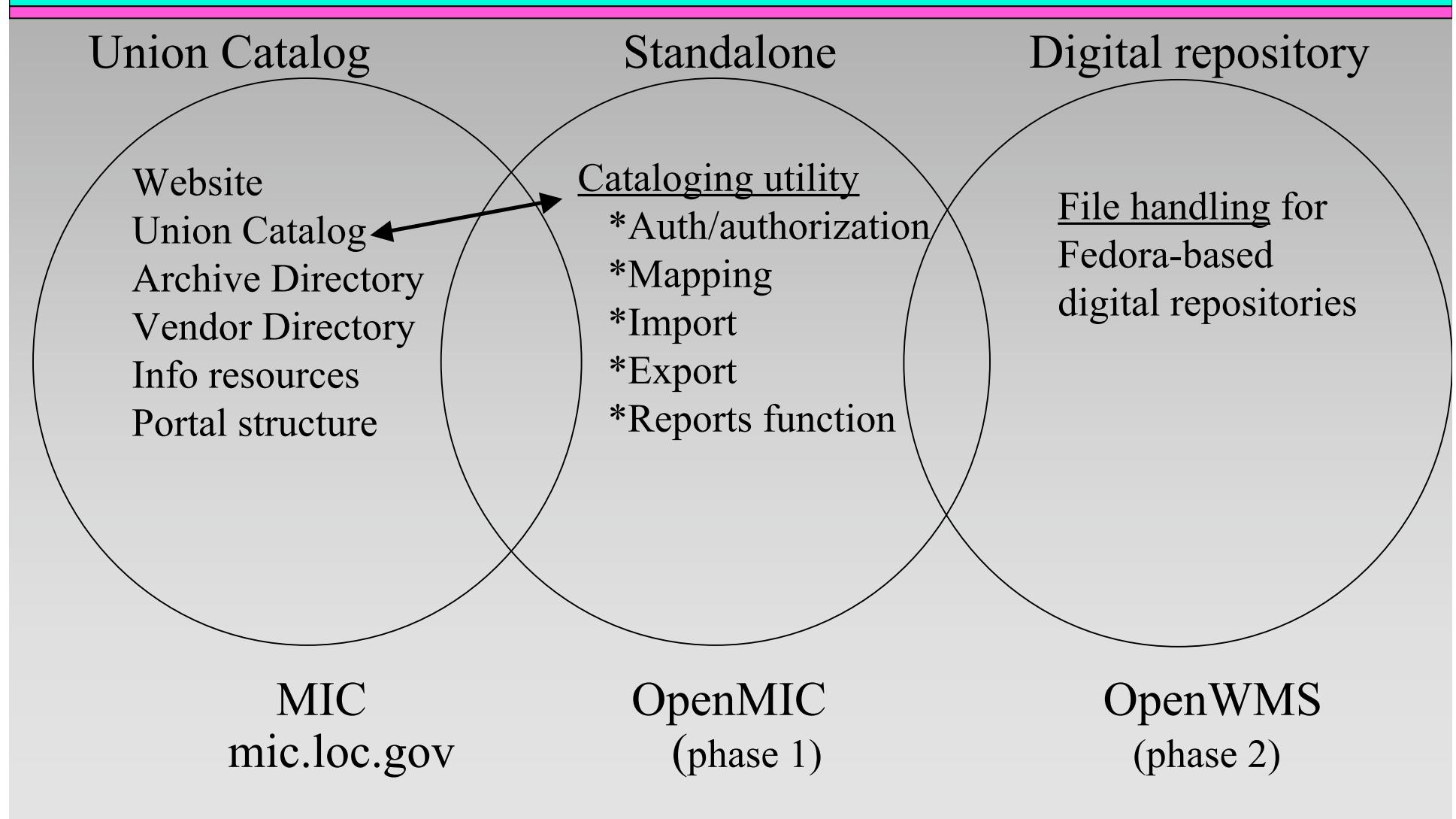
Manage User Account
Review and Manage MIC Archive Directory
Review and Manage MIC Service Provider Directory
Manage MIC Union Catalog

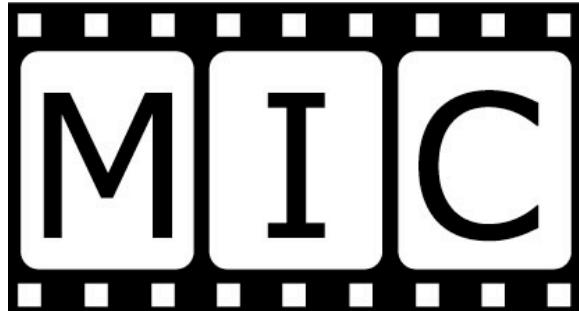
Cancel

- Union Catalog environment
- Standalone
- Part of repository architecture

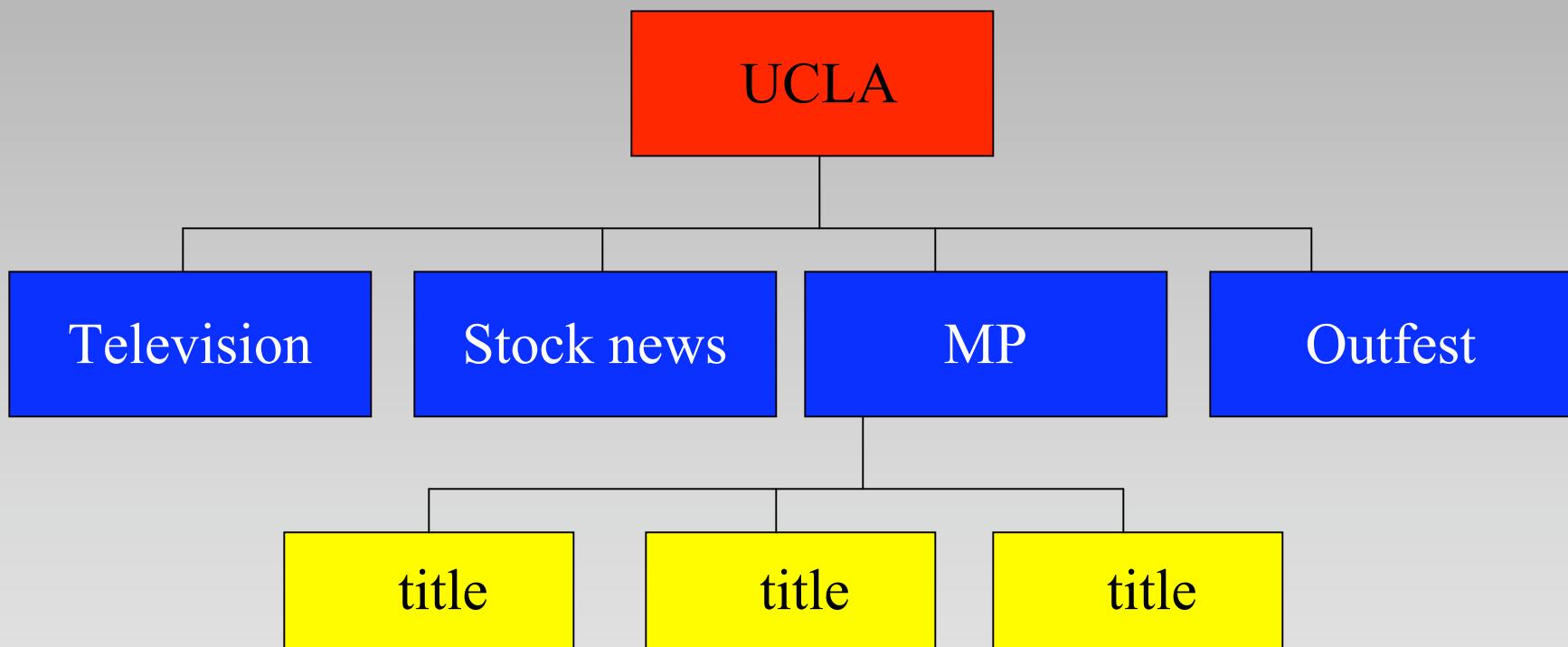


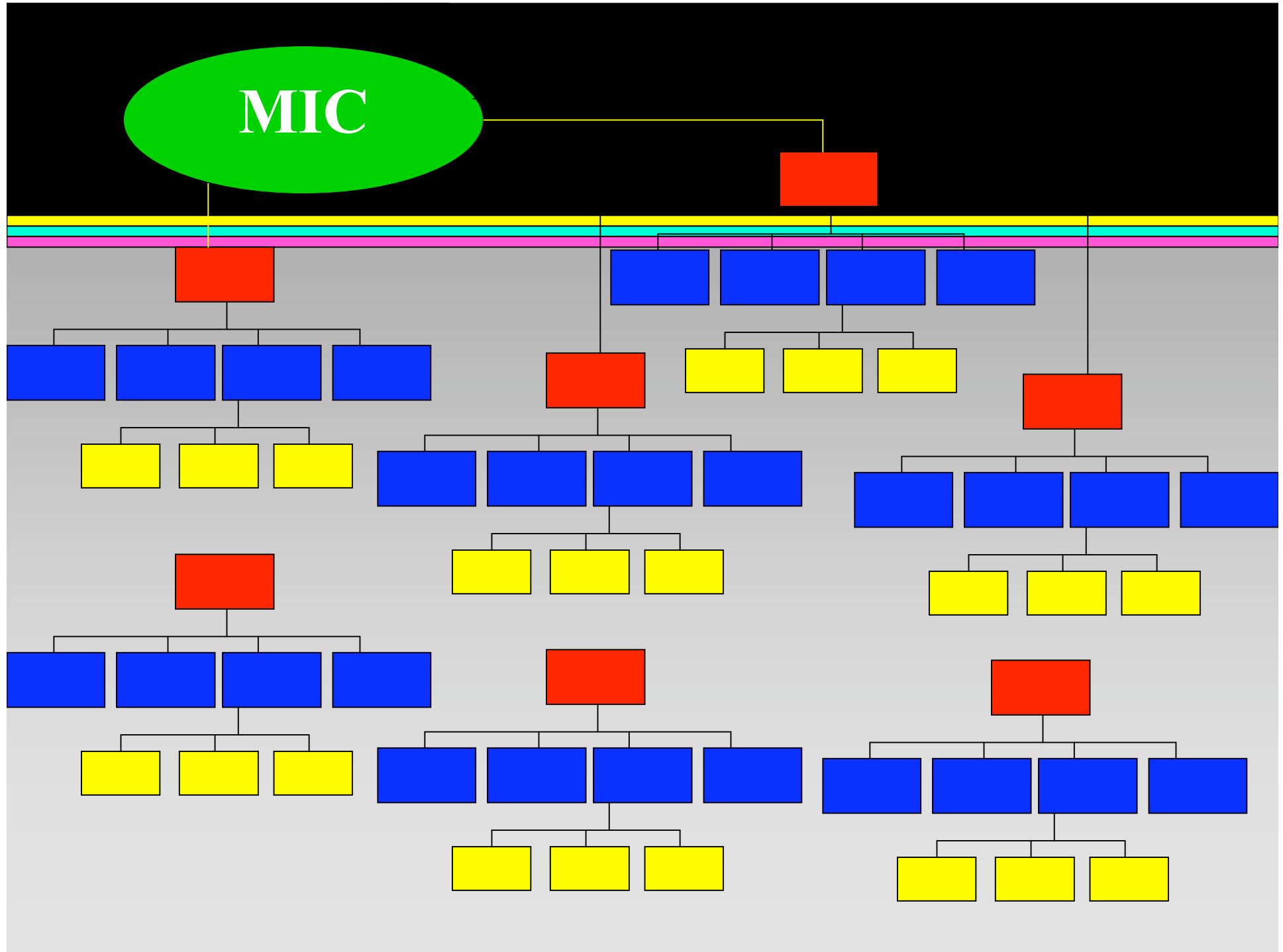
MIC – OpenMIC - OpenWMS





Org-Collection-Resource





Moving Image Collections Management - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Getting Started Latest Headlines

pdf Search PDF

http://mic.rutgers.edu/MICDEV/mic_aa/admin/index.php

MIC

MIC Home | MIC Resource Management

MIC Resource Management

You have logged in as the system super user. You can either review and edit user's authorization/authentication information or go to dwms and start working there.

Manage User Account

Review and Manage MIC Archive Directory

Review and Manage MIC Service Provider Directory

Manage MIC Union Catalog

Cancel

- Organization
- Collection (organizing mechanism)
- Resource



MIC Management - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Getting Started Latest Headlines

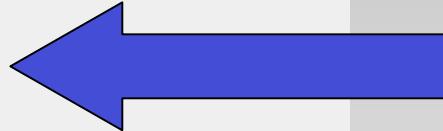
pdf Search PDF

•Create organization

MIC

MIC Home | MIC Resource Management | Log out

- Administration
Manage organizations, collections, and transactions, perform database cleanup, create announcements.
- Configuration
Configure metadata cataloging, digital file handling, mapping, batch import, and export utilities according to organization policies.
- Reports
View or print statistical reports about your metadata or digital files.
- Metadata and digital objects
Create or edit cataloguing records, create or upload digital objects, map schemas, import, export, etc.



MIC Management - Mozilla Firefox

File Edit View History Bookmarks Tools Help



http://mic.rutgers.edu/MICDEV/MICUC_LC/admin/index.php

Getting Started Latest Headlines

pdf

Search PDF



MIC Home | MIC Resource Management | Log out

Administration



Organization Management

Collection Management

Database Cleanup

Transaction Management

Announcements

EXIT



Setup Organization

The Workflow Management System (WMS) is a flexible digital object management tool that helps you prepare the digital objects and associated metadata for ingest into [Fedora](#) based RUcore repository.

Organization ID:

Organization Name:

Organization Address:

Contact Person:

Name:

Telephone:

Email:

EXIT

SAVE



http://mic.rutgers.edu/MICDEV/MICUC_LC/admin/index.php

Getting Started Latest Headlines

pdf

Search PDF

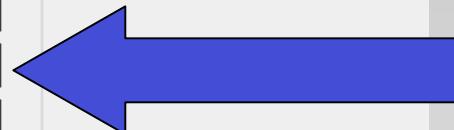


MIC Home | MIC Resource Management | Log out

•Create collection

Administration

- Organization Management
- Collection Management
- Database Cleanup
- Transaction Management
- Announcements
- EXIT**





Getting Started Latest Headlines

pdf

Search PDF

Moving
A Window to

MIC Home | MIC Resource Management | Log out

COLLECTION LIST

{ Organization: Pacific Film Archive }

	System ID	Collection	Status
<input type="radio"/>	3109	Eastwood Classics	M
<input type="radio"/>	3108	Animation	M
<input type="radio"/>	3107	Video art	M
<input type="radio"/>	3106	West Coast avant-garde	M
<input type="radio"/>	3105	Soviet silents	M
<input type="radio"/>	3104	Japanese cinema	M

File Edit View History Bookmarks Tools Help



http://mic.rutgers.edu/MICDEV/mic_aa/admin/index.php



pdf



Search PDF



OpenMIC

[MIC Home](#) | [MIC Resource Management](#)

MIC Resource Management

You have logged in as the system super user. You can either review and edit user's authorization/authentication information or go to dwms and start working there.

[Manage User Account](#)

[Review and Manage MIC Archive Directory](#)

[Review and Manage MIC Service Provider Directory](#)

[Manage MIC Union Catalog](#)

- Create user(s) with role(s)

[Cancel](#)



Moving Image Collections

A Window to the World's Moving Images

[MIC Home](#) | [MIC Resource Management](#)

MIC Resource Management

User Account

First Name:

Last Name:

Address:

Email:

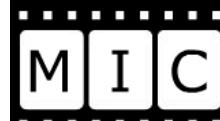
MIC UserID:

Password:

Re-type Password:

Registered Users

	Name	Role Status
<input type="radio"/>	Leigh Andrea	[DLC-RS] Cataloger/import/export/map
<input type="radio"/>	Otto Jane	Super user
<input type="radio"/>	Savage Sean	Not Assigned
<input type="radio"/>	Yu Yang	Super user
		[AkBeKYUK] Cataloger/import/export/map



Moving Image Collections

A Window to the World's Moving Images

[MIC Home](#) | [MIC Resource Management](#)

MIC Resource Management

Role Assignment (for Leigh Andrea)

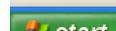
SUPER USER? Yes NoRole for this organization: Role for this module: Role: [edit roles](#)

Current Role Assignment

	Organization	Module	Role
<input checked="" type="radio"/>	Library of Congress Motion Picture, Broadcasting, and Recorded Sound Division	uc	Cataloger/import/export/map

[Cancel](#) [Back](#) [Delete](#) [Submit](#)

Done



D:\MIC\MIC REPORT...

MIC 20081112-AMIA ...

dataDictionary_sourc...

AES Audio Object do...

Microsoft Excel - Ope...

Moving Image Collecti...

1:33 PM

MIC Management - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Getting Started Latest Headlines

pdf Search PDF

•Create metadata for resource

MIC

MIC Home | MIC Resource Management | Log out

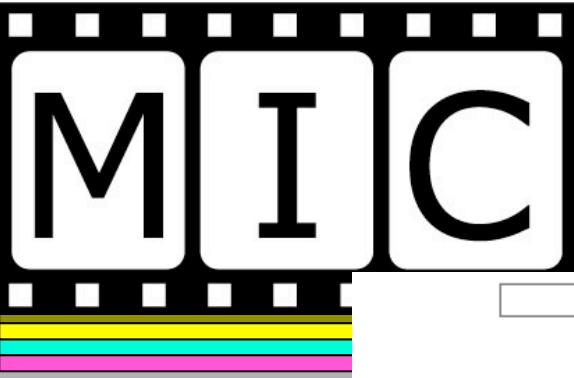
- Administration
Manage organizations, collections, and transactions, perform database cleanup, create announcements.
- Configuration
Configure metadata cataloging, digital file handling, mapping, batch import, and export utilities according to organization policies.
- Reports
View or print statistical reports about your metadata or digital files.
- Metadata and digital objects
Create or edit cataloguing records, create or upload digital objects, map schemas, import, export, etc.





Cataloging Utility Standards

- METS
- MODS
- PREMIS
- MIX
- AES Audio Object Schema
(AES-X098B)



AES Audio Object Schema

COMMITTEE USE ONLY – NOT FOR PUBLICATION

DOCUMENT-Filename:040825.DOC

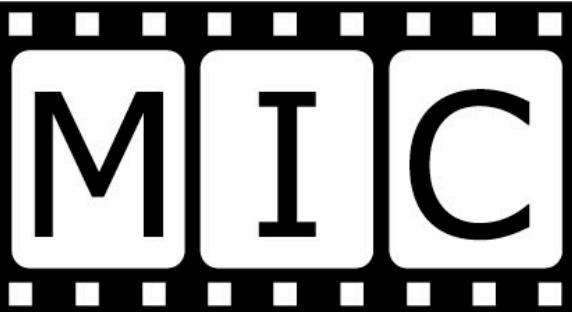
AES-X098
SC-03-06-B

DRAFT
Standard for audio preservation and
restoration -
Administrative and structural metadata
for audio objects

Abstract

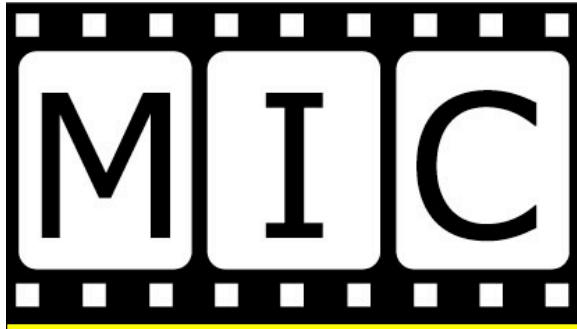
This standard provides a vocabulary to be used in describing structural and administrative metadata for digital and analog audio formats for the purpose of enabling audio preservation activities on those objects. Some implementations also refer to this metadata as technical metadata. The characteristics of the audio objects captured by this standard may be of use to audio communities beyond the audio preservation community.

An AES standard implies a consensus of those directly and materially affected by its scope and provisions and is intended as a guide to aid the manufacturer, the consumer, and the general public. The existence of an AES standard does not in any respect preclude anyone, whether or not he or she has approved the document, from manufacturing, marketing, purchasing, or using products, processes, or procedures not in agreement with the standard. Prior to approval, all parties were provided opportunities to comment or object to any provision. Attention is drawn to the possibility that some of the elements of this AES standard or information document may be the subject of patent rights. AES shall not be held responsible for identifying any or all such patents. Approval does not assume any liability to any patent owner, nor does it assume any obligation whatever to parties adopting the standards document. This document is subject to periodic review and users are cautioned to obtain the latest edition. Recipients of this document are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.



AES Scope

- For long-term archival storage and presrvtn
- Comprehensive metadata for preservation, retrieval, playback, end user display
- Digital or analog
- Physical audio carriers or streams of bits
- Implemented as XML schema
- Extended to moving images for OpenMIC



AES

- Granular
- Rigorous delineation between descriptive and technical metadata
- Based on structure type,
- distinguishes media & shell (OpenMIC adds container)



Structure Types

- Audiotape
- Optical disc
- Analog disc
- Cylinder
- Wire recording
- Film
- Videotape
- Videodisc



Vocabularies-Diameter

AES

4.4.2.1.2.8 diameter

The diameter element may be used to indicate the diameter of the audio object. The diameter element is of type measurementType as described in 4.4.2.1.2.2. If the diameter of the audio object is unknown or not applicable, then the diameter element shall be omitted.

OpenMIC pulldown menu

5.5 inches

7 inches

8 inches

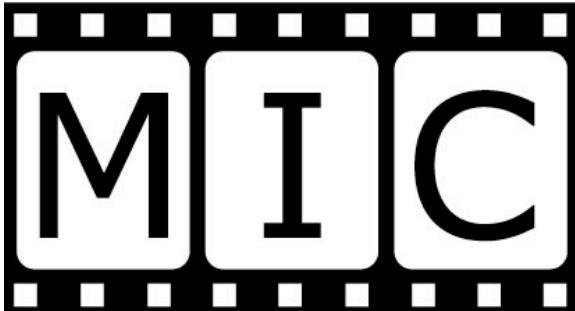
10 inches

12 inches

16 inches

20 inches

Other



Vocabulary sources

LC AV Prototype (based on draft AES standard)

(<http://www.loc.gov/rr/mopic/avprot/metsmenu2.html>)

SMPTE RP210

PBCore

MAVIS

National Film and Sound Archive

Sound Directions documentation

Experts (AMPAS, AMIA, ARSC, AES, LC, etc.)



Events-Based Model

🎬 Events

- Action occurring in particular place & time
- Associated agents
- Associated objects

🎬 Types of events

- Descriptive
- Provenance
- Preservation
- Condition evaluation
- Rights

[EXIT](#)[Template](#)[View Entries](#)[Clear All](#)[SAVE](#)

Template used: [none]

Metadata Type:

Descriptive

Technical

Source

Rights

Required

Jump to

DESCRIPTIVE METADATA

(* indicates required element)

Type of Item *

Title Information

Title *

Subtitle

Type

Part Name

Part Number

Nonsort

Target Audience

Term source

- GEM
- LC Educational Sectors
- MPAA
- TV Parental Guidelines

Target Audience

▼

▼

G
NC-17
NR
PG
PG-13
R

Note

Type

▼

Value *

▲▼

Add More

Personal Name

Family Name

Given Name

[EXIT](#)[Template](#)[View Entries](#)[Clear All](#)[SAVE](#)

Template used: [none]

Metadata Type:

[Descriptive](#)[Technical](#)[Source](#)[Rights](#)[Required](#)[Jump to](#)

TECHNICAL METADATA

(* indicates required element)

Object Architecture

Preservation Level

Storage

Medium

Content Location Type

Content Location

[Add More](#)

Creating Application

Version

Date Created

(YYYY-MM-DD)

Creating Application

Digitization Date/Time

(YYYY-MM-DD)

Operating System

Version

Operating System

Format

Type

Version

Value

Add More

Compression

Compression

Compression Scheme

Compression Ratio

Color Space

Sampling

Sampling Unit

Sampling Size

Sampling Word Size

Bits per Sample

Time Code

Time Code

Time Code Type

Time Code Record Method

Duration

Frame

Height

Width

Rate

Aspect Ratio

Structure

Audio

Presentation

Audio Sampling

Sampling Rate

Sampling BitsPer

Word Size

Number Of Channels

Add More

Channels

Channel Assignment

Left-right Position

Front-rear Position

BitRate Reduction

Codec Name

Codec Name Version

Creating Application

Version *

Creating Application

Codec Quality

Data Rate

Data Rate Mode *

Video Data Encoding

Byte Order

Sound Present

Note

[EXIT](#)[Template](#)[View Entries](#)[Clear All](#)[SAVE](#)

Template used: [none]

Metadata Type:

[Descriptive](#)[Technical](#)[Source](#)[Rights](#)[Required](#)[Jump to](#)

SOURCE METADATA

(* indicates required element)

Source Technical Information

Source Type *

Film

Extent

Type

▼

Value

▼

- film cartridge(s)
- film cassette(s)
- film reel(s)

Gauge

▼

Sound

Format

▼

Medium

▼

Material

▼

Integration

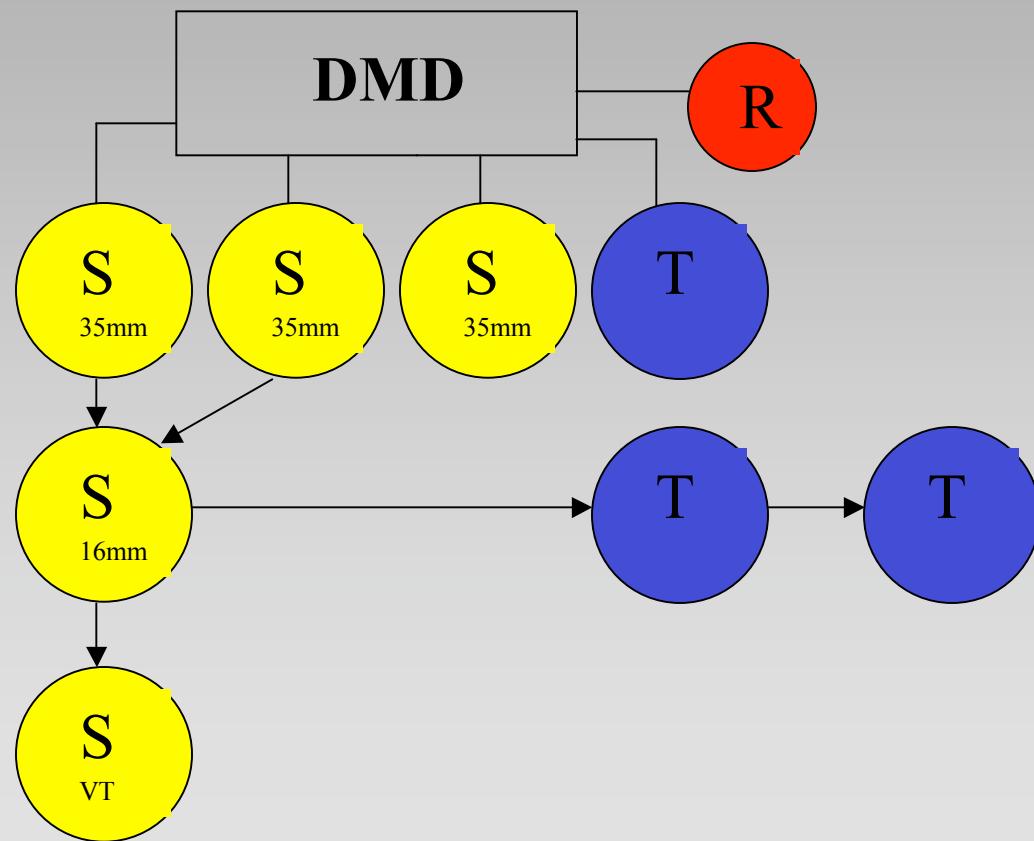
▼

...

...

M I C

Multiple Instantiations



[EXIT](#)[Template](#)[View Entries](#)[Clear All](#)[SAVE](#)

Metadata Type:

[Descriptive](#)[Technical](#)[Source](#)[Rights](#)[Required](#)[Jump to](#)

Template used: [none]

DESCRIPTIVE METADATA

(* indicates required element)

Type of Item *

Title Information

Title *

Type

Part Name

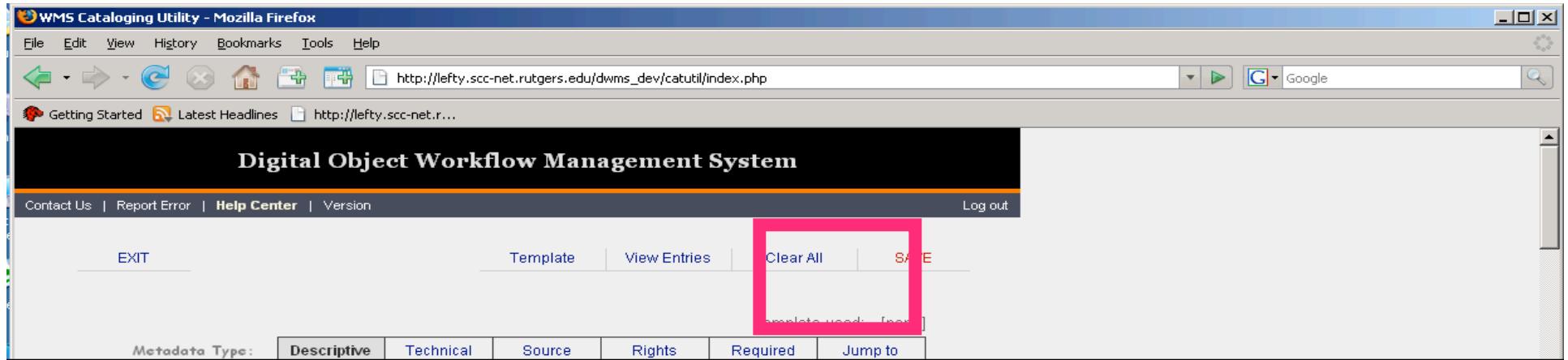
Part Number

Nonsort

Entry List (Title Info)

 ka test 09-21-07[Change](#)[Remove](#)[Add More](#)

Subtitle Information



- Rights declaration (tied to ID)
- Copyright status (protected, PD, unknown)
- Availability status (open, restricted, unavailable)
- Availability reason (© expired, mandated by law, permission/license, etc.)
- Publication status (published, unpublished, publication pending, etc.)
- Watermark
- Rights holder
- Rights event

**Rights Event**Event entries for: [Existing event(s): 0]

Type	<input type="text"/>
Label	<input type="text"/>
Place	<input type="text"/>
Date & Time	<input type="text"/> :mm:ss
Detail	<input type="text"/>
Associated Entity	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Affiliation	<input type="text"/>
Reference	<input type="text"/>
Detail	<input type="text"/>
----- AssociatedEvent Entry List -----	
<input type="button" value="Add More"/>	
Associated Object	
Type	<input type="text"/>
Name	<input type="text"/>
Reference	<input type="text"/>



Flexibility & Configurability

- Enable/disable/add data elements
- Edit controlled vocabularies
- Templates (personal and collection)
- Required elements
- Reports
- Announcements



More About MIC

The Code4Lib Journal

About

Mission
Editorial Committee
Process and Structure
Code4Lib

For Authors

Call for Submissions
Article Guidelines

The Rutgers Workflow Management System: Migrating a Digital Object Management Utility to Open Source

Issue 1, 2007-12-17

This article examines the development, architecture, and future plans for the Workflow Management System, software developed by Rutgers University Libraries (RUL) to create and catalog digital objects for repository ingest and access. The Workflow Management System (WMS) was created as a front-end utility for the Fedora open source repository platform and a vehicle for a flexible, extensible metadata architecture, to serve the information needs of a large university and its collaborators. The next phase of development for the WMS shifted to a re-engineering of the WMS as an open source application. This paper discusses the design and architecture of the WMS, its re-engineering for open source release, remaining issues to be addressed before application release, and future development plans for the WMS.

By Grace Agnew & Yang Yu

Introduction

Ingest of digital objects is a core service of a repository architecture. Most repository services, from preservation and storage to discovery and retrieval, are dependent on the information collected about the digital object at ingest. The scalability of the repository,

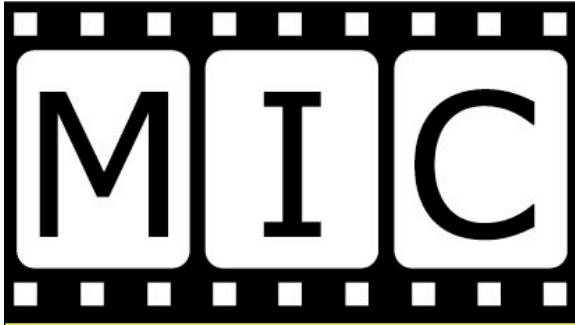


Rucore

Rutgers Community Repository

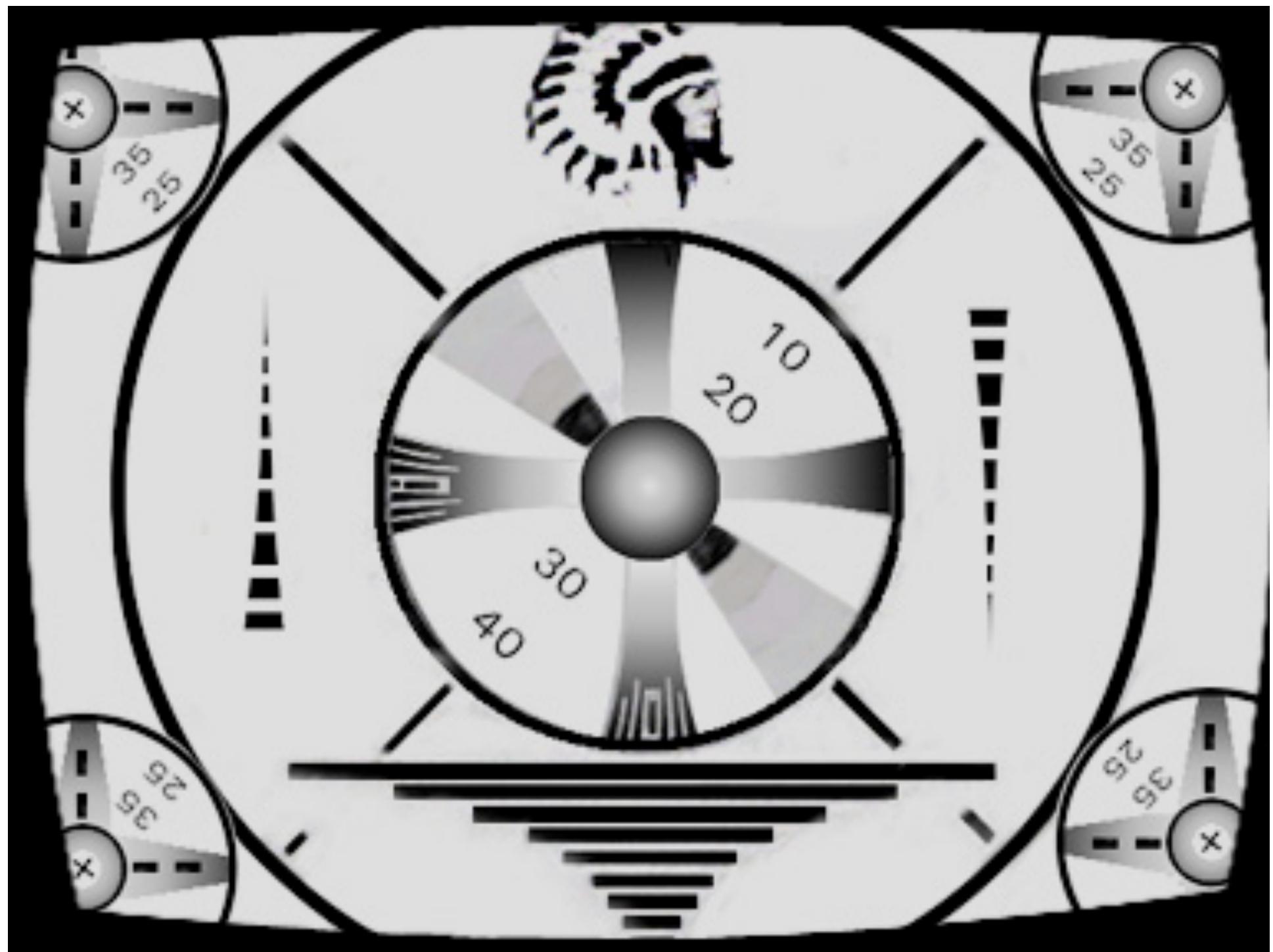
<http://rucore.libraries.rutgers.edu>

(for download information)



The MIC Mission

To immerse moving images
in the education mainstream, recognizing that
what society uses, it values, and
what it values, it preserves.





Technical Specifications

Website and Catalog search and retrieval

- Apache version (apache 1.3.27)
- PHP version (php 4.3.3)
- LDAP type and version (ldap 3.3) - moving to MySQL v5.2

- Zebra version (idzebra 1.3.13)
- Yaz version (yaz2.0.4)
- IBM P610 server
- SuSE Linux OS
- MySQL v5.2

Archive Directory

- Apache web server
- PHP scripting
- Certificate utility
- LDAP database (ldap 3.3)
- IBM P610 server
- SuSE Linux OS

Service Providers Directory

- Apache web server
- PHP scripting
- Certificate utility
- MySQL v5.2
- IBM P610 server
- SuSE Linux OS

Cataloging & Ingest-Export Utilities

- Apache web server
- PHP scripting
- Certificate utility
- PostgreSQL database
- IBM p630 server
- IBM Linux OS