OpenMIC User Manual

Bibliographic Utility for analog and digital objects

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I. Introduction

OpenMIC is an open source, web-based bibliographic utility that can be used as a standalone application or integrated with other repository architectures by a wide range of organizations. It provides a complete metadata creation system for analog and digital materials, with services to export these metadata in standard formats.

The bibliographic utility features a METS data architecture which can be used in any METS-based or METS-compliant environment. It uses MODS as an underlying metadata schema for descriptive MD, NISO/AES standard for technical MD and PREMIS for source MD and rights MD. It outputs an XML wrapper for the METS components as a single object.

The bibliographic utility data model is primarily an event-based data model, intended to document what happens to a resource at a specific time and place. Preservation and condition events, provenance events, rights events, and descriptive events document what happens to a resource throughout its lifecycle. Details of the events can include associated entities (such as an exhibit curator) and associated objects (such as an exhibit catalog).

OpenMIC is a core application for the Moving Image Collections (MIC) initiative developed at the Rutgers University Libraries with funding from the Library of Congress, the Institute of Museum and Library Services, and the National Science Foundation.

II. Using this Manual

This manual assumes that the software has already been installed and configured. For installing the software, please see the OpenMIC installation and configuration manual.

This manual describes how to use OpenMIC to create and maintain metadata for analog and digital objects such as photographs, moving images, etc.

There are five sections in this manual.

Section A provides a typical workflow diagram for digital objects in OpenMIC.
Section B provides a diagram showing the hierarchy of objects in OpenMIC.
Section C explains the different types of objects in OpenMIC.
Section D provides detailed step-by-step instructions to create or maintain digital objects.
Section E provides detailed step-by-step instructions to perform other administrative tasks.
Section A: Workflow in OpenMIC

- **Step 1. Administration**
  - Create Organization
  - Create Collection(s)
  - Create User(s)

- **Step 2. Metadata and Digital Objects**
  - Create Metadata

- **Step 3. Export (Optional)**
  - Export in METS/XML
  - Export in Marc XML

Section B: Object Hierarchy in OpenMIC
Section C: Object Types in OpenMIC

1. Collection Object

A collection object is a special object that contains the information about the organization that holds the collection and the description of the collection.

2. Resource Object

A resource object is an item that contains information about the resource that is being digitized.
Section D: Using OpenMIC

Note 1: Recommended Browsers – Firefox 1.0; Netscape 7.1 and above; IE7.0 and above.

Note 2: Disable pop-up blocking.

Note 3: Enable Cookies.

OpenMIC may be used to create and maintain metadata for analog and digital materials. The software can be used as a standalone system or can be integrated with other repositories. Before you start creating metadata, you must create an organization record and at least one collection record.

Step 1: Administration

There should be only one organization record for each organization. You may create as many collections you need for each organization. You must have “manage collections” privilege to be able to create organization.

1.1) Organization Management (Figures 1.1.1 to 1.1.5)

Create Organization:

i. Login as Super User.
ii. Select Digital Object Workflow Management System from the OpenMIC Initial Screen.
iii. Select Administration.
iv. Select Organization Management.
v. Select Create New Organization.
vi. Enter Org ID, Organization Name, address, and contact information. You may use your organization’s Marc Org ID, if you have one.
vii. Click Save.
viii. Click Exit to return to the Digital Object Workflow Management System main screen.

Edit Organization:

i. Login as Super User.
ii. Select Digital Object Workflow Management System from the OpenMIC Initial Screen.
iii. Select Administration.
iv. Select Organization Management.
v. Select the **Organization** you want to edit.
vi. Click **Edit**.
 vii. Change metadata and click **Save**.
 viii. Click **Exit** to return to the previous screen.

**Delete Organization:**

```
Note: Deleting Organization will delete all the collections and resources belong to this organization.
```

i. Login as Super User.
ii. Select **Digital Object Workflow Management System** from the OpenMIC Initial Screen.
 iii. Select **Administration**.
 iv. Select **Organization Management**.
 v. Select the **Organization** to delete.
 vi. Click **Delete**.
 vii. Click **OK** to confirm deletion.
 viii. Click **Exit** to return to the previous screen.

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**

**Digital Object Workflow Management System**

Figure 1.1.1: OpenMIC initial screen
- **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 cataloging records, create or upload digital objects, map schemas, import, export, etc.

Figure 1.1.2: Digital Object Workflow Management System main screen

![Administration Screen](image)

**Administration**

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

Figure 1.1.3: Administration screen
Figure 1.1.4: Organization List screen

Figure 1.1.5: Setup organization screen
1.2) **Collection Management** (Figures 1.2.1 to 1.2.8)

You may create as many collection objects for each organization. A collection object is a special object that contains the information about the organization that holds the collection and the description of the collection. It keeps all the resources that belong to a collection together for search and display.

**Create Parent Collection**

i. Select *Digital Object Workflow Management System* from the OpenMIC Initial Screen.

ii. Select *Administration*.

iii. Select *Collection Management*.

iv. Go to the organization box and click *Add Collection*.

v. Enter metadata for the collection. (Refer to the online Metadata Guide: http://rucore.libraries.rutgers.edu/open/projects/openmic/)

vi. Click *Save*.

vii. Click *Exit* to return to the Administration screen.

**Create Sub-collection**

i. Select *Digital Object Workflow Management System* from the OpenMIC Initial Screen.

ii. Select *Administration*.

iii. Select *Collection Management*.

iv. Go to the organization box and select the collection.

v. Select *Add collection*. A message window will appear prompting you to confirm the action. Click *OK*.

vi. Enter metadata.

vii. Click *Save*.

viii. Click *Exit* to return to the Administration screen.

**Edit Collection/sub-collection**

i. Select *Digital Object Workflow Management System* from the OpenMIC Initial Screen.

ii. Select *Administration*.

iii. Select *Collection Management*.

iv. Go to the organization box and select the *Collection* to edit.

v. Click *Edit*.

vi. Make changes and click *Save*.

vii. Click *Exit* to return to the Administration screen.

**Delete Collection/sub-collection**
i. Select **Digital Object Workflow Management System** from the OpenMIC Initial Screen.

ii. Select **Administration**.

iii. Select **Collection Management**.

iv. Go to the organization that has the collection you want to delete.

v. Select the **Collection** you want to delete.

vi. Click **Delete**.

vii. Click **Exit** to return to the Administration screen.

---

**Note:** Deleting collection will delete all the resources belong to the collection.

---

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**

**Digital Object Workflow Management System**

---

Figure 1.2.1: OpenMIC initial screen
- **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 cataloging records, create or upload digital objects, map schemas, import, export, etc.

---

Figure 1.2.2: Digital Object Workflow Management System main screen

---

Figure 1.2.3: Administration screen
Figure 1.2.4: Organization/Collection List screen

Figure 1.2.4: Metadata entry screen
**View Collection**

There are three options available to view a collection record: METS, FOXML (Fedora Object XML for Fedora repositories), and TEXT.

i. Select the collection you want to view from the collection list.

ii. Click **METS, FOXML, or TEXT**. IE automatically displays the xml. If you are using other browsers, you will have to choose “View Page Source” to see the xml.

iii. Click **Exit** to return to the Administration screen.

```
<?xml version="1.0" encoding="utf-8"?>
<METS:metsHdr ID="H1" CREATEDATE="2008-10-06T14:59:42" LASTMODDATE="2008-10-06T14:59:42"
<METS:mdSec ID="MMD-1" GROUPID="" ADMID="" CREATED="2008-09-19T11:22:09" STATUS=""
<METS:mdWrap MDTYPE="text/xml" MDTYPE="OTHER" LABEL="MODS Metadata"
  <METS:xmlData>
    <mods:mods>
      <mods:typeOfResource>Collection</mods:typeOfResource>
      <mods:titleInfo ID="T-1" type="">
        <mods:title>KA test organization</mods:title>
      </mods:titleInfo>
      <mods:identifier type="collection">rucer0000000023</mods:identifier>
      <mods:name ID="NAME-1" type="personal">
        <mods:namePart type="family">KA</mods:namePart>
        <mods:namePart type="given">MR</mods:namePart>
        <mods:role>
          <mods:roleTerm type="text" authority="marcRelator">owner</mods:roleTerm>
        </mods:role>
      </mods:name>
      <mods:name ID="NAME-1" type="corporate">
        <mods:namePart>NJIBRU</mods:namePart>
        <mods:displayForm>Rutgers University</mods:displayForm>
      </mods:name>
    </mods:mods>
  </METS:xmlData>
</METS:mdWrap>
</METS:mets>
```

Figure 1.2.5: Collection record in METS XML
Figure 1.2.6: Collection record in FOXML
Metadata Entries

Descriptive:

Type Of Resource:  Collection

Title Info:
  Main Title:  ka test organization

Identifier:
  Type:  collection
  Identifier:  rncore0000000629

Personal Name:
  Family Name:  KA
  Given Name:  AK
  Name Role:
    Role Type:  text
    Role Authority:  marcRelator
    Name Role:  owner

Corp/Org Name:
  Corp/Org Name:  NjNcRU
  Display Form:  Rutgers University

---

Figure 1.2.7: Collection record in TEXT

---

Collection Hierarchy Builder
The Collection Hierarchy Builder allows users to change the collection relationships after the collections have been already created. You may move an existing collection from its current location to a new location or associate a parent collection to more organizations.

Example: change a sub-collection of collection 1 owned by organization A to become a parent collection owned by organization B.

**Change Collection Hierarchy**

i. Select *Digital Object Workflow Management System* from the OpenMIC initial screen.

ii. Select *Administration*.

iii. Select *Collection Management*.

iv. Select the *Collection*.

v. Click *Edit Collection Hierarchy*.

vi. You may either move selected collection to a new location or associate selected collection with more organizations. If you have selected to move the collection,

   - Click *next step*.
   - Select collection owner from the pull down.
   - Select *parent collection* from the pull down, if the collection is a subcollection of another collection, or select not a *subcollection*.
   - Click *submit*.

vii. If you are associating selected collection to more organizations,

   - Click *next step*.
   - Select collection owner from the pull down.
   - Click *Submit*.

****** Note: The collection will be listed under both organizations. If you delete one collection, it will be removed from the other organization also. This feature has not been fully tested so please use this with caution!

viii. Click *Exit* to return to the Administration screen.
1.3) **User Management** (Figures 1.3.1 to 1.3.5)

It is strongly recommended to create individual user accounts to be able to keep track of the work performed by the users. The user information such as user name and email is written in the xml in the Digital Provenance Metadata section. Each user account is associated with role(s). If a user account is not associated with a role, the user can not log in. A user with super user privileges will be able to perform all the tasks in the OpenMIC. To create and manage users, the user account must have “manage users” privilege.

**Create User**

i. Select **Manage User Account** from the OpenMIC initial screen.

ii. Enter First Name, Last Name, Address (optional), Email, UserID, and password.

iii. Retype **password**.

iv. Click **Submit**.

v. Next you need to assign a role or roles to this user. If there are no role(s) created for your organization, create role(s) before you proceed. (See Create Role.)

vi. Select the user.

vii. Click **Assign role(s)**.

viii. Select **Organization** from the Organization pull down.

ix. Select **MIC Utility** for Module.

x. Select the **role** from the pull down list.

xi. Click **Submit**.
xii. Click **Cancel** to return to the OpenMIC Initial Screen or **Back** to return to User Account screen.

### Create Role

i. Select **Manage User Account** from the OpenMIC initial screen.

ii. Select the user from the Registered Users screen.

iii. Select the **Organization** from the pull down list.

iv. Select **MIC Utility** from the pull down list for module.

v. Click **edit roles**.

vi. Enter role name and role description in the data entry box on Role-Privilege Relationship screen.

vii. Select privilege(s) associated with this role.

viii. Click **Submit**.

ix. Click **Cancel** to return to the OpenMIC Initial Screen or **Back** to return to User Account screen.

### Edit User

i. Select **Manage User Account** from the OpenMIC initial screen.

ii. Select the user from the Registered Users screen.

iii. Edit user information.

iv. Click **Submit**.

v. To delete a previously assigned role:

   o Click **Assign Role(s)**.
   o Select the role under Current Role Assignment.
   o Click **Delete**.

vi. To change a previously assigned role:

   o Click **Assign Role(s)**.
   o *Select* the role under Current Role Assignment.
   o Select a new role from the pull down.
   o Click **Submit**.

vii. Click **Cancel** to return to the OpenMIC Initial Screen or **Back** to return to User Account screen.

### Edit Role

i. If you are editing the role, click **Assign Role(s)**.
ii. Select *Organization* from the pick list.
iii. Select *Module*.
iv. Select *Role* from the pick list.
v. Click *Submit*.
vi. Click *Cancel* to return to the OpenMIC initial screen.

**Delete User**

i. Select *Manage User Account* from the OpenMIC Initial Screen.
ii. Select user from the Registered Users screen.
iii. Click *Delete User*.
iv. Click *OK*.
v. Click *Cancel* to the previous screen.

**Delete Role** *(not implemented in the current version)*
<table>
<thead>
<tr>
<th>Privileges</th>
<th>User</th>
<th>Organization</th>
<th>Collection</th>
<th>Metadata</th>
</tr>
</thead>
<tbody>
<tr>
<td>Super User</td>
<td>Create user; Edit user; Delete user; Create roles; Edit roles; Delete roles</td>
<td>Create organization; Edit organization; Delete organization</td>
<td>Create collection; Edit collection; Delete collection; View collection</td>
<td>Create or revise metadata mapping; Upload sample records; Check map; Batch import of metadata records; Batch export of metadata records; Create personal template; Edit personal template; Delete personal template; Create metadata record; Edit metadata records; Delete metadata records; View metadata record; Enter Controlled Vocabulary terms</td>
</tr>
<tr>
<td>Manage User</td>
<td>Edit username; Edit password; Create User; Assign Role(s)</td>
<td>Edit organization</td>
<td>Create collection; Edit collection; Delete collection; View collection</td>
<td></td>
</tr>
<tr>
<td>Manage Collections</td>
<td>Edit username; Edit password</td>
<td>Edit organization</td>
<td>Create collection; Edit collection; Delete collection; View collection</td>
<td></td>
</tr>
<tr>
<td>Configure Cataloging Utility</td>
<td>Edit username; Edit password</td>
<td></td>
<td>Setup required elements; Create collection level template; Edit collection level template; Delete collection level template; View collection level template</td>
<td></td>
</tr>
<tr>
<td>Mapping</td>
<td>Edit username; Edit password</td>
<td></td>
<td></td>
<td>Create or revise metadata mapping; Upload sample records; Check map</td>
</tr>
<tr>
<td>Batch Import</td>
<td>Edit username; Edit password</td>
<td></td>
<td></td>
<td>Batch import of metadata records</td>
</tr>
<tr>
<td>Export</td>
<td>Edit username; Edit password</td>
<td></td>
<td></td>
<td>Batch export of metadata records</td>
</tr>
<tr>
<td>Metadata Cataloging</td>
<td>Edit username; Edit password</td>
<td></td>
<td></td>
<td>Create personal template; Edit personal template; Delete personal template; Create metadata record; Edit metadata records; Delete metadata records; View metadata record</td>
</tr>
<tr>
<td>View/Generate Reports</td>
<td>Not Implemented</td>
<td>Not Implemented</td>
<td>Not implemented</td>
<td>Not implemented</td>
</tr>
<tr>
<td>Read Only</td>
<td>Not Implemented</td>
<td>Not Implemented</td>
<td>Not implemented</td>
<td>Not implemented</td>
</tr>
</tbody>
</table>

Table 1: User Privileges and Permissions
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

Digital Object Workflow Management System

Figure 1.3.1: OpenMIC initial screen

User Account

First Name: __________________________

Last Name: __________________________

Address: __________________________

Email: __________________________

UserID (for login): __________________________

Password: __________________________

Re-type Password: __________________________

Cancel  Submit

Figure 1.3.2: User account screen
Figure 1.3.3: Registered Users screen

<table>
<thead>
<tr>
<th>Name</th>
<th>Role Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aphone Grace</td>
<td>Super user</td>
</tr>
<tr>
<td>Kalaivan Anathan</td>
<td>Super user</td>
</tr>
<tr>
<td>Yu Yang</td>
<td>Super user</td>
</tr>
<tr>
<td>tantenna</td>
<td>Super user</td>
</tr>
<tr>
<td>otsu jane</td>
<td>Super user</td>
</tr>
</tbody>
</table>

Figure 1.3.4: Role assignment screen
Role - Privilege Relationship

Roles for this module: WMS Utility

Existing Roles:
- Organization Manager
- Export Manager
- CV Manager
- Import Manager

Role Name: Import Manager
Role Description:

Privilege:
- manage user
- manage collections
- configure cataloging utility
- mapping
- batch import
- export
- metadata cataloging
- view/generate report
- read only

Figure 1.3.5: Role – Privilege relationship sample screen
Step 2: Metadata and digital objects

You must have an organization record and collection record created before you start creating metadata. There are two ways to create metadata in OpenMIC.

1) Create metadata manually. This option allows users to create one metadata record at a time.
2) Batch import. This option allows users to batch load metadata from an existing database.

2.1) Create Metadata (Manual Input) (Figures 2.1.1 to 2.1.9)

Tips:

1. In some cases, all or many of the resources in a collection will share the same metadata. Some technical metadata and rights metadata might be identical. The template utility allows collection managers and metadata creators to create generic records that contain default data. When a template is enabled, this default data is added to the metadata record automatically when Create New Record is selected.
2. Templates can be enabled for the entire collection or for a specific resource. To create and to enable a template, refer to section 2.1.1.
3. To enable a template for a specific resource, click on Template at top of the metadata entry screen, select a template, and click Apply.

   i. Select Digital Object Workflow Management System from the OpenMIC initial screen.
   ii. Select Metadata and digital objects.
   iii. Select Collection from the collection list.
   iv. Select Metadata Cataloging.
   v. Select Start Cataloging.
   vi. Click Create New Record.
   vii. Select Digital Object Content Type.
   viii. Enter metadata. For detailed information about the metadata elements, please refer to Metadata Guides found on the download page.
   ix. Click Save at top or bottom of the screen.
   x. Click Exit to return to the Start Cataloging Screen.

Edit Metadata

i. Select Digital Object Workflow Management System.
ii. Select Metadata and digital objects.
iii. Select Collection from the collection list.
iv. Select Metadata Cataloging.
v. Select Start Cataloging.
vi. Select the record you want to edit and click **Edit**.

vii. Make metadata changes.

viii. Click **Save**.

ix. Click **Exit** to return to the Start Cataloging Screen.

**Delete Metadata**

i. Select *Digital Object Workflow Management System* from the OpenMIC initial screen.

ii. Select *Metadata and digital objects*.

iii. Select *Collection* from the collection list.

iv. Select *Metadata Cataloging*.

v. Select *Start Cataloging*.

vi. Select the record you want to delete.

vii. Click **Delete**.

viii. Click **OK**.

ix. Click **Exit** to return to the Start Cataloging Screen.

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

Digital Object Workflow Management System

---

Figure 2.1.1: OpenMIC initial screen
• **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 cataloging records, create or upload digital objects, map schemas, import, export, etc.

Figure 2.1.2: Digital Object Workflow Management System main screen

<table>
<thead>
<tr>
<th>Organization - Collection List</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Ananhan University]</td>
</tr>
<tr>
<td>○ Ananhan Test Collection 1</td>
</tr>
<tr>
<td>[Marty University]</td>
</tr>
<tr>
<td>○ Marty Collection</td>
</tr>
<tr>
<td>[Appa University]</td>
</tr>
<tr>
<td>No collection entry</td>
</tr>
<tr>
<td>[Ling University]</td>
</tr>
<tr>
<td>○ Pauls Collection</td>
</tr>
<tr>
<td>[Cebeli University]</td>
</tr>
<tr>
<td>○ Pauls Test Collection</td>
</tr>
<tr>
<td>[Mayer University]</td>
</tr>
</tbody>
</table>

Figure 2.1.3: Organization - Collection List screen
Figure 2.1.4: Main Bibliographic Utility screen

Figure 2.1.5: MIC Cataloging Utility screen
Figure 2.1.6: Metadata record list screen

Figure 2.1.7: Descriptive metadata entry screen
Figure 2.1.8: Metadata Screen Navigation Help

**VIEW ENTRIES**
View metadata in plain text.

**TEMPLATE**
Enable collection level template or personal template when creating metadata record.

**CLEAR ALL**
Clear all data values in the record.

**SAVE**
Save all data values and exit.

**EXIT**
Exit without saving data values.

**PUBLIC**
Metadata for item 1
Create multiple items metadata within a resource object.

**Display Option: All Elements**
Display all metadata elements.

**Display Option: REQUIRED elements only**
Display required metadata elements only.

**NAVIGATOR**
Jump to an element on this page. Use mouse scroll wheel to move up and down the list.

**Tab to Toggle between**
Descriptive MD, Source MD, Technical MD, and Rights MD.

**View/Edit source-technical MD relationship**
Establish relationship between source and technical metadata when creating multiple instances of source and technical metadata for a resource object.

**Display option: All Elements**
ALL elements
REQUERED elements only
View Metadata

i. Select **Digital Object Workflow Management System** from the OpenMIC initial screen.

ii. Select **Metadata and digital objects**.

iii. Select **Collection** from the Organization List.

iv. Select **Metadata Cataloging**.

v. Select **Start Cataloging**.

vi. Select the record. Select **METS, FOXML or TEXT**.

vii. Click **Exit** to return to the Start Cataloging Screen.

```xml
<?xml version='1.0' encoding='utf-8'?>
<METS:metsHdr ID='ML' CREATEDATE='2009-11-13T11:02:30' LASTMODDATE='2009-11-13T11:02:30' RECORDS
<METS:amdSec ID='MMD-1' GROUPID=''' ADMID='MMD-1' CREATED='2009-10-24T00:59:22' STATUS='A'
<METS:xmlWrap MIMETYPE='text/xml' MDTYPE='OTHER' LABEL='MOAR Metadata'>
  <METS:xmData>
    <mods:mods>
      <mods:typeOfResource>Text</mods:typeOfResource>
      <mods:titleInfo ID='T-1' type=''>
        <mods:title>A first test title</mods:title>
      </mods:titleInfo>
    </mods:mods>
  </METS:xmData>
</METS:xmlWrap>
</METS:amdSec>
<METS:amdSec ID='MMD-1'>
  <METS:techMD ID='TMD-1.1' GROUPID=''' ADMID='TMD-1.1' CREATED='2009-10-24T00:59:22' STATUS='A'>
    <METS:xmlData>
      <rulib:RULTechMD>
        <rulib:preservationLevel>bit level</rulib:preservationLevel>
      </rulib:RULTechMD>
    </METS:xmlData>
  </METS:techMD>
</METS:amdSec>
</METS:mets>
```

Figure 2.1.9: Metadata record in METS XML
Figure 2.1.10: Metadata record in FOXML

**Metadata Entries**

**Descriptive:**

Type Of Resource:  Text

Title Info:

Main Title: KA first test title

**Technical:**

Preservation Level: bit level

Figure 2.1.11: Metadata record in TEXT

### 2.1.1) Create Template (Figures 2.1.1.1 to 2.1.1.15)
There are two different templates available in the OpenMIC -- collection level and personal level. A collection level template will be applied to all resources within the collection by metadata creators. To create a collection level template, the user must have “Configure Cataloging Utility” permission. If the collection level template is set as a default template, it is applied to the metadata record automatically when Create New Record is selected. If it is not set as a default template, metadata creators can enable the template at the time they create the metadata record.

A personal level template is created by metadata creator. Templates created at this level are available only to the owner of the template. If a personal level template is set as a default template, it is applied to the metadata record automatically when Create New Record is selected. If it is not set as a default template, metadata creators can enable the template at the time they create the metadata record.

**Create collection level template:**

i. Select *Metadata and digital objects* from the Digital Object Workflow Management main screen.

ii. Select the collection from the Collection List.

iii. Select *Customize system settings for this collection.*

iv. Select *Templates.*

v. Select *Create New Template.* You will get a screen similar to Create New Record screen.

vi. You may either create a new template or use an existing metadata record as a new template.

a) To create a new template:

   o Select *main* for Title Information Type.
   o Enter Title for the template.
   o Enter metadata.
   o Click *Save.*
   o If you want to save this template as a default template, click *Set Default* button.

b) To create a new template using an existing metadata record: (see figure 2.1.1.13)

   o Select *Use Existing Metadata.*
   o Select the metadata record to use as template.
   o Click *Apply to Template.*
   o Click *OK.*
   o Select *main* for Title Information Type.
   o Enter Title for the template.
   o Click *Save.*
   o If you want to save this template as a default template, click *Set Default* button.

c) Click *Exit* to return to the Main Bibliographic Utility screen.
**Edit collection level template:**

i. Select *Metadata and digital objects* from the Digital Object Workflow Management main screen.

ii. Select the collection from the Collection List.

iii. Select *Customize system settings for this collection*.

iv. Select *Templates*.

v. Select a *template* from the Template List.

vi. Select *Edit*.

vii. Make changes.

viii. Click *Save*.

ix. Click *Exit* to return to the Main Bibliographic Utility screen.

**Delete collection level template:**

i. Select *Metadata and digital objects* from the Digital Object Workflow Management main screen.

ii. Select the collection from the Collection List.

iii. Select *Customize system settings for this collection*.

iv. Select *Templates*.

v. Select a template from the Template List.

vi. Click *Delete*.

vii. Click *Exit* to return to the Main Bibliographic Utility screen.

---

- **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 cataloging records, create or upload digital objects, map schemas, import, export, etc.
Welcome to the Open MIC!

[ Grace Agnew Collection ]

- Customize system settings for this collection
- Metadata Cataloging
- Mapping Utility
- Batch Import
- Export
- Exit / Change Collection

Figure 2.1.1.2: Main Bibliographic utility screen

Template List

<table>
<thead>
<tr>
<th>System ID</th>
<th>Template</th>
<th>Subset Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>3095</td>
<td>Test template collection level for bug 766</td>
<td></td>
</tr>
<tr>
<td>36</td>
<td>Newsfilm template</td>
<td></td>
</tr>
</tbody>
</table>

Figure 2.1.1.3: Template List screen
Figure 2.1.1.4: Template data entry screen

Existing Resource for Collection 6

<table>
<thead>
<tr>
<th>Resource Name</th>
<th>Created Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hallmark hall of fame</td>
<td></td>
</tr>
<tr>
<td>Winter mind</td>
<td></td>
</tr>
<tr>
<td>Test for location Physical Location source value</td>
<td></td>
</tr>
<tr>
<td>Test of technical metadata data dictionary</td>
<td></td>
</tr>
<tr>
<td>Knitting from knitting template</td>
<td></td>
</tr>
<tr>
<td>Test for source disappearing after required field display invoked</td>
<td></td>
</tr>
<tr>
<td>Michael [loves] Nancy</td>
<td></td>
</tr>
<tr>
<td>Erwan I Luk Rose</td>
<td></td>
</tr>
<tr>
<td>Varua-Tai, of land and sea</td>
<td></td>
</tr>
<tr>
<td>Solid sistas documentary</td>
<td></td>
</tr>
<tr>
<td>Days made of fear</td>
<td></td>
</tr>
<tr>
<td>Boy of Baghdad</td>
<td></td>
</tr>
<tr>
<td>Las Claves de la masacre</td>
<td></td>
</tr>
<tr>
<td>49th Star</td>
<td></td>
</tr>
</tbody>
</table>

Figure 2.1.1.5: Existing resource record Screen
View collection level template

i. Select **Metadata and digital objects** from the Digital Object Workflow Management main screen.

ii. Select the collection from the Collection List.

iii. Select **Customize system settings for this collection**.

iv. Select the **Templates**.

v. Select a **template** from the Template List.

vi. Click **METS** or **TEXT**.

vii. Click **Exit** to return to the previous screen.

```xml
<?xml version="1.0" encoding="utf-8"?>
  <METS:metsHdr ID="H1" CREATEDATE="2008-11-21T14:38:46" LASTMODDATE="2008-11-21T14:38:46">
    <METS:metsHdr ID="H1" GROUPID="" ADMID="" CREATED="2008-11-21T14:14:16" STATUS="A">
      <METS:mdWrap MDTYPE="text/xml" MDTYPE="OTHER" LABEL="REDS Metadata">
        <METS:xmlData>
          <mods:titleInfo>
            <mods:title>NYU Class template</mods:title>
          </mods:titleInfo>
          <mods:identifier type="miscURCRcordID">1234</mods:identifier>
          <mods:language>
            <mods:languageTerm authority="" local">local</mods:languageTerm>
          </mods:language>
          <mods:genre authority="ISPF-FORM">animation</mods:genre>
          <mods:subject ID="SBJ-1" authority="" major">major</mods:subject>
          <mods:targetAudience authority="" level">Higher education</mods:targetAudience>
        </mods:xmeta>
      </METS:mdWrap>
    </METS:mdSec>
  </METS:xmlData>
</METS:mets>
```

Figure 2.1.1.6: View template in METS XML
**Create personal template:**

i. Select *Metadata and digital objects* from the Digital Object Workflow Management main screen.

ii. Select the collection from the Collection List.

iii. Select *Metadata Cataloging*.

iv. Select *Setup Personal Template*.

v. Select *Create New Template*. You will get a screen similar to *Create New Record* screen.

vi. You may either create a new template or use an existing metadata record as a new template.

a) To create a new template:

   o Select *main* for Title Information Type.
   o Enter a Title for the template.
   o Enter metadata.
   o Click *Save*.
   o If you want to save this template as a default template, click *Set Default* button.

b) To create a new template using an existing metadata record: (see figure 2.1.1.13)
o Select Use Existing Metadata.
  o Select the metadata record to use as template.
  o Click Apply to Template.
  o Click OK.
  o Select main for Title Information Type.
  o Enter a Title for the template.
  o Click Save.
  o If you want to save this template as a default template, click Set Default button.

vii. Click Exit to return to the Main Bibliographic Utility screen.

**Edit personal template:**

i. Select Metadata and digital objects from the Digital Object Workflow Management main screen.
ii. Select the collection from the Collection List.
iii. Select Metadata Cataloging.
iv. Select Setup Personal Template.
v. Select the template.
vi. Select Edit.
vii. Make changes.
viii. Click Save.
ix. Click Exit to return to the Main Bibliographic Utility screen.

**Delete personal template:**

i. Select Metadata and digital objects from the Digital Object Workflow Management main screen.
ii. Select the collection from the Collection List.
iii. Select Metadata Cataloging.
iv. Select Setup Personal Template.
v. Select the template.
vi. Click Delete.
vii. Click OK.
viii. Click Exit to return to the Main Bibliographic Utility screen.
- **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 cataloging records, create or upload digital objects, map schemas, import, export, etc.

---

Figure 2.1.1.8: Digital Object Workflow Management System main screen

---

**Welcome to the OpenMIC Bibliographic Utility!**

[ Ananthan Test Collection 1 ]

- Customize system settings for this collection
- Metadata Cataloging
- Mapping Utility
- Batch import
- Export
- Exit / Change Collection

---

Figure 2.1.1.9: Main Bibliographic Utility screen
WMS Cataloging Utility

The Cataloging Utility is a flexible cataloging tool for creating, editing, or deleting metadata records in WMS. Set up templates to reduce inputting time.

For help or more information, please visit the WMS help center or contact the WMS administrator.

---

**Figure 2.1.1.10: Cataloging Screen**

---

**Template List**

<table>
<thead>
<tr>
<th>Search</th>
<th>View</th>
<th>Mets</th>
<th>Text</th>
<th>Max display</th>
<th>&lt;&lt;</th>
<th>Search &gt;&gt; Top</th>
<th>Create New Template</th>
</tr>
</thead>
<tbody>
<tr>
<td>System ID</td>
<td>Template</td>
<td>Set/unset Default</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Figure 2.1.1.11: Template list screen**
Figure 2.1.1.12: Template data entry screen

**Existing Resource for Collection 6**

<table>
<thead>
<tr>
<th>Resource Name</th>
<th>Created Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hallmark hall of fame</td>
<td></td>
</tr>
<tr>
<td>Winter mind</td>
<td></td>
</tr>
<tr>
<td>Test for location Physical Location source value</td>
<td></td>
</tr>
<tr>
<td>Test of technical metadata data dictionary</td>
<td></td>
</tr>
<tr>
<td>Knitting from knitting template</td>
<td></td>
</tr>
<tr>
<td>Test for source disappearing after required field display invoked</td>
<td></td>
</tr>
<tr>
<td>Michael [Jones] Nancy</td>
<td></td>
</tr>
<tr>
<td>Enwan [Last Name] Rose</td>
<td></td>
</tr>
<tr>
<td>Vanua-Tai, of land and sea</td>
<td></td>
</tr>
<tr>
<td>Solid sistas documentary</td>
<td></td>
</tr>
<tr>
<td>Days made of fear</td>
<td></td>
</tr>
<tr>
<td>Boy of Baghdad</td>
<td></td>
</tr>
<tr>
<td>Las Claves de la masacre</td>
<td></td>
</tr>
<tr>
<td>49th Star</td>
<td></td>
</tr>
<tr>
<td>Continuous Journey</td>
<td></td>
</tr>
</tbody>
</table>

Figure 2.1.1.13: Existing metadata record screen

**View personal template:**
i. Select *Metadata and digital objects* from the Digital Object Workflow Management main screen.

ii. Select the collection from the Collection List.

iii. Select *Metadata Cataloging*.

iv. Select *Setup Personal Template*.

v. Select *Templates*.

vi. Click *METS to view in XML or Text* to view in plain text.

vii. Click *Exit* to return to the previous screen.

```xml
<?xml version="1.0" encoding="utf-8"?>
  <METS:mdSec ID="MD-1" GROUPID="" ADMID="AND-1" CREATED="2008-11-21T14:14:16" STATUS="A">
    <METS:mdWrap MDTYPE="text/xml" MDTYPE="OTHER" LABEL="RODS Metadata">
      <METS:xmlData>
        <mods:mets>
          <mods:mods>
            <mods:typeOfResource>NYU Class template</mods:typeOfResource>
            <mods:creationDateTime>2008-11-21T14:38:46</mods:creationDateTime>
            <mods:abstract>
              Animation
            </mods:abstract>
            <mods:source>
              Higher education
            </mods:source>
            <mods:identifier type="urn:uuid:06231e0f-2e22-4058-b8b7-92662ee3ccc0" id="1234"/>
            <mods:titleInfo>
              <mods:title>NYU Class template</mods:title>
            </mods:titleInfo>
            <mods:language>
              <mods:languageTerm authority="local" xlink:href="#"/>
            </mods:language>
            <mods:genre authority="MFG:">animation</mods:genre>
            <mods:subject id="SBJ-1" authority="aat"/>
            <mods:subject>
              Higher education
            </mods:subject>
            <mods:subject id="SBJ-2" authority="aat"/>
            <mods:subject>
              Animations
            </mods:subject>
            <mods:subject id="SBJ-3" authority="aat"/>
            <mods:subject>
              Digital Object Workflow Management
            </mods:subject>
            <mods:subject id="SBJ-4" authority="aat"/>
            <mods:subject>
              Digital Object Cataloging
            </mods:subject>
            <mods:subject id="SBJ-5" authority="aat"/>
            <mods:subject>
              Personal Template
            </mods:subject>
            <mods:subject id="SBJ-6" authority="aat"/>
            <mods:subject>
              Setup Personal Template
            </mods:subject>
          </mods:mods>
        </METS:xmlData>
      </METS:mdWrap>
    </METS:mdSec>
  </METS:mets>
</METS:mets>
```

Figure 2.1.14: Personal Template in XML
2.1.2) Define Collection Level Required Elements (Figures 2.1.2.1 to 2.1.2.3)

OpenMIC allows users with Cataloging Utility privilege to define collection level required elements. The elements that are set as required are validated by OpenMIC, and, if any elements are missing values, they are flagged with “M”.

i. Select *Metadata and digital objects* from the Digital Object Workflow Management main screen.

ii. Select *Collection*.

iii. Select *Customize system settings for this collection*.

iv. Select *Required Elements*.

v. Select appropriate metadata type.

vi. Click on the element(s).

vii. Go through each of the metadata types and select required field entry from the list.

viii. Click *Save*.

ix. Click *Exit* to return to the Main Bibliographic Utility screen.
- **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 cataloging records, create or upload digital objects, map schemas, import, export, etc.

---

*Figure 2.1.2.1: Digital Object Workflow Management System main screen*

---

**Welcome to the Open MIC!**

{ Grace Agnew Collection }

- Customized system settings for this collection
- Metadata Cataloging
- Mapping Utility
- Batch Import
- Export
- Exit/Change Collection

---

*Figure 2.1.2.2: Main Bibliographic Utility screen*
2.1.3) Create Multiple instances of metadata (Figures 2.1.3.1 to 2.1.3.9)

OpenMIC is delivered with an important functionality that allows users to create multiple instances of descriptive, source, technical, and rights metadata within a single METS object.

For example, a videotape can be made from a 16mm film which was made from a 35mm film. You may want to add source and technical metadata for both of these instances.
Create multiple instances of source and technical metadata for a single METS object:

Diagram 1 shows how multiple instances of source and technical metadata are tied together in a single METS object.

Diagram 1: Single METS object with multiple descriptive metadata

i. Select Metadata and digital objects from the Digital Object Workflow Management main screen.
ii. Select Collection from the collection list.
iii. Select Metadata Cataloging.
iv. Select Start Cataloging.
v. Click Create New Record.
vi. Enter descriptive metadata.
vii. Select Source Metadata and enter metadata.
viii. Select Add new source metadata and add source metadata for the second instance.
ix. Select Technical Metadata and enter metadata.
x. Select Add new technical metadata.
xii. Select Source MD #2 in the window and enter technical metadata for the second instance.
xi. Select Rights MD and enter rights metadata.
xiii. Select View-Edit source-technical MD relationship to verify if the relationship is accurate.
xiv. Click Save.
xv. Click Exit to return to the Main Bibliographic Utility screen.
Edit multiple instances of source and technical metadata

i. Select **Metadata and digital object** from the Digital Object Workflow Management main screen.
   
   ii. Select **Collection** from the collection list.
   
   iii. Select **Metadata Cataloging**.
   
   iv. Select **Start Cataloging**.
   
   v. Select Record and click **Edit**.
   
   vi. Select metadata type to edit.
   
   vii. Change metadata.
   
   viii. You may also edit the source-technical metadata relationship. Select **View/Edit source-technical MD Relationship**.

   ix. Select **Edit**.

   x. Select **Technical metadata set** and select the correct **source metadata set**.

   xi. Click **Submit**.

   xii. Click **Save**.

   xiii. Click **Exit** to return to the Main Bibliographic Utility screen.

Delete multiple instances of source and technical metadata

i. Select **Metadata and digital objects** from the Digital Object Workflow Management main screen.

   ii. Select **Collection** from the collection list.

   iii. Select **Metadata Cataloging**.

   iv. Select **Start Cataloging**.

   v. Select Record and click **Edit**.

   vi. Select **Source MD** or **Technical MD**.

   vii. Select **the instance** you want to remove.

   viii. Click **Remove**.

   ix. Click **Save**.

   x. Click **Exit** to return to the Main Bibliographic Utility screen.

View multiple instances of source and technical metadata

i. Select **Digital Object Workflow Management System** from the OpenMIC initial screen.

   ii. Select **Metadata and digital objects**.

   iii. Select **Collection** from the Organization List.

   iv. Select **Metadata Cataloging**.

   v. Select **Start Cataloging**.

   vi. Select the record. Select **METS, FOXML or TEXT**.

   vii. Click **Exit** to return to the Start Cataloging Screen.
Create multiple instances of descriptive metadata for a single METS object

If you are cataloging a work containing multiple items that each item has its own metadata.

For example: A photo album containing 10 photographs.

You may want to describe the photo album as item 1 and then the individual photographs as second and so on.

Diagram 2 shows how multiple instances of descriptive, source and technical metadata tied together as a single METS object.

Diagram 2: Single METS object with multiple descriptive metadata

i. Select **Metadata and digital objects** from the Digital Object Workflow Management main screen.
ii. Select **Collection** from the collection list.
iii. Select **Metadata Cataloging**.
iv. Select **Start Cataloging**.
v. Click **Create New Record**.
vi. Enter descriptive metadata.
vii. Select **Source MD** and enter metadata.
viii. Select **Technical MD** and enter metadata.
ix. Select Rights MD and enter metadata.

x. Select Add metadata for another item of this work from the drop down menu under “Metadata for item 1”.

xi. Enter descriptive metadata.

xii. Select Source MD and enter metadata.

xiii. Select Technical MD and enter metadata.

xiv. Select Rights MD and enter metadata.

xv. Click Save.

xvi. Click Exit to return to the Main Bibliographic Utility screen.

**Edit multiple instances of descriptive metadata**

xiv. Select Metadata and digital objects from the Digital Object Workflow Management main screen.

xv. Select Collection from the collection list.

xvi. Select Metadata Cataloging.

xvii. Select Start Cataloging.

xviii. Select Record and click Edit.

xix. Select metadata item to edit.

xx. Change metadata.

xxi. Click Save.

xxii. Click Exit to return to the Main Bibliographic Utility screen.

**Delete multiple instances of descriptive metadata**

xi. Select Metadata and digital objects from the Digital Object Workflow Management main screen.

xii. Select Collection from the collection list.

xiii. Select Metadata Cataloging.

xiv. Select Start Cataloging.

xv. Select Record and click Edit.

xvi. Select metadata item to delete.

xvii. Click Remove.

xviii. Click Exit to return to the Main Bibliographic Utility screen.
- **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 cataloging records, create or upload digital objects, map schemas, import, export, etc.

---

Figure 2.1.3.1: Digital Object Workflow Management System main screen

---

![Welcome to the Open MIC!](image)

Welcome to the Open MIC!

[ Grace Agnew Collection ]

- Customize system settings for this collection
- Metadata Cataloging
- Mapping Utility
- Batch Import
- Export
- Exit/Change Collection

---

Figure 2.1.3.2: Main Bibliographic Utility screen
Figure 2.1.3.5: Metadata record list

<table>
<thead>
<tr>
<th>System ID</th>
<th>Record</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>23</td>
<td>1 oversized card with a photograph of students on back</td>
<td>OK</td>
</tr>
<tr>
<td>24</td>
<td>2 posters with photographs and newspaper clippings</td>
<td>OK</td>
</tr>
<tr>
<td>25</td>
<td>2 posters with signatures and messages</td>
<td>OK</td>
</tr>
<tr>
<td>26</td>
<td>&quot;1 cloth banner, 1 photograph, 1 letter&quot;</td>
<td>OK</td>
</tr>
<tr>
<td>27</td>
<td>2 posters with messages and signatures</td>
<td>OK</td>
</tr>
<tr>
<td>28</td>
<td>&quot;13 notes on construction paper, 1 poster&quot;</td>
<td>OK</td>
</tr>
</tbody>
</table>

Figure 2.1.3.4: Source Metadata entry screen

[Diagram of Source Metadata entry screen]

- Ananthan Test Collection 1 (Ananthan University)
- Template used: [none]
Figure 2.1.3.5: Technical Metadata entry screen

Figure 2.1.3.6: Adding new technical metadata
Figure 2.1.3.7: View/Edit source and technical MD relationship screen

Figure 2.1.3.8: Multiple descriptive metadata screen

Figure 2.1.3.9: Multiple source and technical metadata in METS XML

Figure 2.1.3.10: Multiple descriptive metadata in METS XML
2.2) Batch load existing metadata (Figures 2.2.1 to 2.2.13)

Metadata from existing database(s) can be batch loaded into OpenMIC. The OpenMIC has built-in MARCXML and MODS XML mapping tools (developed by Library of Congress) which automatically map metadata into the OpenMIC database. If metadata is in any other format, you will need to map your data elements to OpenMIC database using the Mapping Utility using the “in-house” option. Follow the instructions below to batch load metadata from existing database(s).

A: Map data elements

i. Select Metadata and digital objects from the Digital Object Workflow Management main screen.
ii. Select Mapping Utility.
iii. Select MIC internal MD (METS) to map your metadata elements.
iv. Select Create or Revise Mapping.
v. You may either create a new mapping or edit an existing mapping.
vi. To create a new mapping:
   o Enter a map name.
   o Select a schema of your records.
   o If you have selected MARC (xml) or MODS (xml), mapping is automatically provided by OpenMIC. The Library of Congress has marc/mods to xml conversion tools that you can download to create marc xml file.
      ▪ Click Save.
      ▪ Proceed to step viii.
   o If you have selected “in-house (text)”, you must map metadata elements from the in-house database to OpenMIC database. You also need to export the metadata in .txt format from the native database.
      a) Provide field list.
         ▪ Enter the name of the elements in the same order as it appears in the in-house database.
         ▪ If there are more than 10 elements in the database, click More fields.
         ▪ Use edit tools “<<“ and “”x” to insert or remove data elements from the field list.
         ▪ Enter the field delimiter used in metadata text file.
         ▪ Click Update Fields.
   b) Map metadata fields.
- Select the element on the left side of the window from the in-house database and select the appropriate OpenMIC database element. This will automatically map these two elements and these elements will appear in the mapping list. To delete mapping of an element, click on the radio button.
- If the data elements have multiple values, enter the value separator in the “Multi-value Separator” box in the mapping results window.
- When you are done with mapping, click **Save**.

vii. Click **Exit** to return to the MIC Mapping Utility main screen.

viii. Upload sample records. Before starting the batch import, it is recommended to view mapping of sample records.

  o Click **Upload Sample Records** from the MIC Mapping Utility main screen.
  o Select the sample file from the pull down list.
  o Browse and Upload a sample text file. It is recommended to prepare a sample file to test mapping.
  o Click **Submit**.

ix. Select **Check Map** from the Mapping Screen.

  o Select **Mapping for review**.
  o Sample records will be displayed on the screen.
  o Select a record and click on **TEXT or XML (METS)**.
  o Review uploaded records. If you are satisfied with the mapping results, proceed to batch import.

x. Click **Exit** to return to the Main Bibliographic Utility screen.
- **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 cataloging records, create or upload digital objects, map schemas, import, export, etc.

Figure 2.2.1: Digital Object Workflow Management System main screen

![Digital Object Workflow Management System main screen](image)

Figure 2.2.2: Main Bibliographic Utility screen

![Main Bibliographic Utility screen](image)
WMS Mapping Utility

The mapping utility walks you through a two-step process to map your record format to the METS metadata standard used in WMS.

Mapping Procedure:
1. Use a template to indicate how the fields in your local database or spreadsheet translate (map) to WMS data fields.
2. Upload up to 25 sample records.
3. Check the map. Review how your sample records display in WMS according to the template.

You can go back and revise the template until the records display to your satisfaction. Your saved template will then be reviewed and approved by the WMS administrator.

Map to:
- WMS Local MD (METS)

Create or Revise Mapping
Upload Sample Records
Check Map
EXIT

Figure 2.23: MIC Mapping Utility main screen

Mapping To Open MIC

Please follow steps below to map your records to Open MIC.

Select an existing mapping to edit: 

OR, if creating a new mapping, enter a mapping name (ID):

Schema of your records:

Cancel
Save

Figure 2.2.4: Mapping screen
Please follow steps below to map your records to MIC Union Catalog.

Entering a name (ID) for the mapping:

OR

Select an existing mapping to edit:

Select a mapping ---

Schema of your records: In-house (text)

**Step 1. Provide field list**

Please enter the field names in exact order of the fields in your metadata text file (even if the field has no values):

<table>
<thead>
<tr>
<th>Order</th>
<th>Field Name</th>
<th>Edit Tool</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>&lt;=</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>&lt;=</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>&lt;=</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>&lt;=</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>&lt;=</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>&lt;=</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>&lt;=</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>&lt;=</td>
</tr>
<tr>
<td>9</td>
<td></td>
<td>&lt;=</td>
</tr>
<tr>
<td>10</td>
<td></td>
<td>&lt;=</td>
</tr>
</tbody>
</table>

Edit Tool: <= Insert before this field. X Remove this field.

**Figure 2.2.5: In-house mapping screen 1**

**Step 2. Map Metadata Fields**

To do the mapping, select an In-house DB element (left), then a matching element in our system (right). Repeat the step until done.

**Figure 2.2.6: In-house mapping screen 2**
Figure 2.2.7: Upload sample records screen

Figure 2.2.8: Review sample records screen
**B: Batch Import** (Figures 2.2.9 to 2.2.13)

i. Select *Metadata and digital objects* from the Digital Object Workflow Management main screen.

ii. Select *Collection* from the collection list.

iii. Select *Batch Import* from the Main Bibliographic Utility screen.

iv. Select *Metadata Schema*.

v. Select *Record Format* (XML for MARC and MODS; TXT (tab-delimited) for in-house (text)).

vi. Select *Mapping Name*.

vii. Select “Yes” if the file has already been uploaded, otherwise, select “No”.

viii. If you have selected “Yes”, select *Show Step2*.

ix. Select *an uploaded file to import* from the pull down and click *Import*.

x. If you have selected “No”, you will be prompted to select the location of the file.

xi. Select “Local Computer” if the file is on the PC; otherwise, select “Server”.

xii. Click *Show Step 2*.

xiii. If you have selected “Local Computer”, browse and select the file.

xiv. Click *Upload/Import*.

xv. If you have selected “Server”, enter the absolute path of the file.

xvi. Click *Upload/Import*.

xvii. Click *Refresh* check the status of the import.

xviii. Once the import is completed, you will be able to review the records in the metadata record list. Exit from the import screen and select *Metadata Cataloging*. If there are any errors, review the records failed, and reload them.

xix. Click *EXIT* to return to previous screen.

---

- **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 cataloging records, create or upload digital objects, map schemes, import, export, etc.
Figure 2.2.9: Digital Object Workflow Management System main screen

Figure 2.2.10: Main Bibliographic Utility screen
**Metadata Import**

**Step 1. Provide metadata and file information**

- **Metadata Schema:** In-house (txt)
- **Record Format:** TXT (tab-delimited)
- **Files already uploaded to the server?** Yes  No

**Step 2. Import uploaded file(s) to the database**

- **Select an uploaded file to import**
- **Import Status**
  - Total Record: 0
  - Finished: 0

---

**Figure 2.2.11: Metadata Import screen 1**

**Metadata Import**

**Step 1. Provide metadata and file information**

- **Metadata Schema:** In-house (txt)
- **Record Format:** TXT (tab-delimited)
- **Files already uploaded to the server?** Yes  No

**Step 2. Import uploaded file(s) to the database**

- **Select an uploaded file to import**
- **Import Status**
  - Total Record: 0
  - Finished: 0

---

**Figure 2.2.12: Metadata Import screen 2**
Step 3: Export (Optional) (Figures 3.1 to 3.3)

There are two possible scenarios in which you may want to export records:

1) Organizations using a repository may export the bibliographic records in the OpenMIC database as METS and convert to your repositories native schema using third-party tools or XSLT transformations provided by you.

2) Organizations with no repository may export a copy of the bibliographic records in the OpenMIC database as METS and made available to an XML search and retrieval facility, such as Lucene or Zebra.

Note: Organizations with Fedora repository may use OpenMIC to manage metadata. You need to add the file section in the xml before ingesting into fedora repository or wait until OpenMIC is ready for download. Visit http://rucore.libraries.rutgers.edu/open/ forOpenMIC project details.

Follow the instructions below to export records:

1. Select Metadata and digital objects from the Digital Object Workflow Management main screen.
2. Select Collection from the collection list.
3. Select Export from the Main Cataloging Screen.
4. Select Export Format (METS).
5. Select Export Destination (File).
vi. Click **one record per file** for file option.

vii. Select **File Name Prefix**.

viii. **Specify record(s) to export.** There are three options available.

   o “All records of this collection” will export every record in the collection in a separate file under the export directory configured by the system administrator.
   
   o If “A subset of this collection “is selected, a pop-up box will be prompted to select a range to export.
   
   o If “Single record” is selected, a pop-up box will be prompted to select a record to export.

ix. Click **Export**.

x. Click **Refresh** to monitor the progress of export.

xi. Click **EXIT** to return to previous screen.

---

Figure 3.1: Digital Object Workflow Management System main screen
Figure 3.2: Main Bibliographic Utility screen

Figure 3.3: Metadata export screen
Section E: Other Administrative Functions

The OpenMIC is delivered with a controlled vocabularies module and a database cleanup module that are available to users with Super User privilege or the user accounts with cataloging utility privilege.

5.1) Controlled Vocabularies (Figures 5.1.1 to 5.1.9)

Using the Controlled Vocabulary module, you may:

1) Add a new term source authority to an element; or
2) Add terms to an authority; or
3) Add locally defined terms; or
4) Add terms to a controlled vocabulary list with no associated term source authority.

Add Controlled Vocabularies

i. Select Digital Object Workflow Management System from the OpenMIC Initial Screen.
ii. Select Metadata and digital objects from the Digital Object Workflow Management main screen.
iii. Select collection from the collection list.
iv. Select Metadata Cataloging.
v. Select Start Cataloging.
vi. Click Create New Record.
vii. Select Metadata section.
viii. To add a new term source authority to an element:
   - Locate the element name on the metadata input form.
   - Select ADD/EDIT TERMS radio button under Term Source.
   - Enter the name of the term source authority. Note that terms will be displayed in the same order it was entered.
   - Click Submit. The name you entered will appear as a radio button under Term Source.
   - Click Exit to return to the Metadata record list screen.
ix. Add terms to an authority:
   - Locate the element name on the metadata input form.
   - Select the Term Source.
   - Select ADD/EDIT TERMS from the pull down next to the element name to which you want to add terms.
   - Enter the values in the box. Separate each term with semicolon. The terms will be displayed in the same order as they were entered.
   - Click Submit.
x. **Add locally defined terms:**

- Locate the element name on the metadata input form.
- Select **Local** for Term Source.
- Select **ADD/EDIT TERMS** from the pull down next to the element name you want to add terms.
- Enter the values in the box. Separate each term with semicolon. The terms will be displayed in the same order as they were entered.
- Click **Submit**.
- Click **Exit** to return to the Metadata record list screen.

xi. **Add terms to a controlled vocabulary with no associated authority:**

- Locate the element name on the metadata input form.
- Select **add/edit/delete terms** from the pull down next to the element name you want to add terms.
- Enter the values in the box. Separate each term with semicolon. The terms will be displayed in the same order as they were entered.
- Click **Submit**.
- Click **Exit** to return to the Metadata record list screen.

**Edit Controlled Vocabularies**

i. Select **Digital Object Workflow Management System** from the OpenMIC Initial Screen.

ii. Select **Metadata and digital objects** from the Digital Object Workflow Management main screen.

iii. Select **collection** from the collection list.

iv. Select **Metadata Cataloging**.

v. Select **Start Cataloging**.

vi. Click **Create New Record**.

vii. Select **Metadata section**.

viii. To edit a term source authority to an element:

- Locate the element name on the metadata input form.
- Select **ADD/EDIT TERMS** radio button under Term Source.
- Change the name of the term source authority. Note that terms will be displayed in the same order it was entered.
- Click **Submit**. The name you entered will appear as a radio button under Term Source.
- Click **Exit** to return to the Metadata record list screen.
ix. **Edit terms in a term source authority:**
   - Locate the element name on the metadata input form.
   - Select the **Term Source**.
   - Select **ADD/EDIT TERMS** from the pull down next to the element name to which you want to change terms.
   - Change the terms in the box. Separate each term with semicolon. The terms will be displayed in the same order as they were entered.
   - Click **Submit**.
   - Click **Exit** to return to the Metadata record list screen.

x. **Edit locally defined terms:**
   - Locate the element name on the metadata input form.
   - Select **Local** for Term Source.
   - Select **ADD/EDIT TERMS** from the pull down next to the element name to which you want to change terms.
   - Change the terms in the box. Separate each term with semicolon. The terms will be displayed in the same order as they were entered.
   - Click **Submit**.
   - Click **Exit** to return to the Metadata record list screen.

xi. **Edit terms in a controlled vocabulary list with no associated authority:**
   - Locate the element name on the metadata input form.
   - Select **add/edit/delete terms** from the pull down next to the element name to which you want to change terms.
   - Change the terms in the box. Separate each term with semicolon. The terms will be displayed in the same order as they were entered.
   - Click **Submit**.
   - Click **Exit** to return to the Metadata record list screen.

**Delete Controlled Vocabularies**

  i. Select **Digital Object Workflow Management System** from the OpenMIC Initial Screen.
  ii. Select **Metadata and digital objects** from the Digital Object Workflow Management main screen.
  iii. Select **collection** from the collection list.
  iv. Select **Metadata Cataloging**.
  v. Select **Start Cataloging**.
  vi. Click **Create New Record**.
  vii. Select **Metadata section**.
  viii. Delete a term source authority from an element:
ix. **Delete terms from an authority:**

- Locate the element name on the metadata input form.
- Select **ADD/EDIT TERMS** radio button under Term Source.
- Delete the name of the term source authority. Note that terms will be displayed in the same order it was entered.
- Click **Submit**. The name you entered will appear as a radio button under Term Source.
- Click **Exit** to return to the Metadata record list screen.

ix. **Add locally defined terms:**

- Locate the element name on the metadata input form.
- Select the **Term Source**.
- Select **ADD/EDIT TERMS** from the pull down next to the element name to which you want to delete terms.
- Enter the values in the box. Separate each term with semicolon. The terms will be displayed in the same order as they were entered.
- Click **Submit**.
- Click **Exit** to return to the Metadata record list screen.

x. **Add terms to a controlled vocabulary with no associated authority:**

- Locate the element name on the metadata input form.
- Select **add/edit/delete terms** from the pull down next to the element name to which you want to delete terms.
- Enter the values in the box. Separate each term with semicolon. The terms will be displayed in the same order as they were entered.
- Click **Submit**.
- Click **Exit** to return to the Metadata record list screen.
- **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 cataloging records, create or upload digital objects, map schemas, import, export, etc.

Figure 5.1.1: Administration screen

```
[ Pauls Test Collection ]
```

- Customize system settings for this collection
- Metadata Cataloging
- Mapping Utility
- Batch Import
- Export
- Exit / Change Collection

Figure 5.1.2: Main Bibliographic Utility screen
Figure 5.1.3: Metadata record list

Figure 5.1.4: Metadata entry screen
Figure 5.1.5: Add term source authority screen 1

Figure 5.1.6: Add term source authority screen 2
Figure 5.1.7: Add term to a term source authority screen 1.

Figure 5.1.8: Add term to a term source authority screen 2.
5.2) **Database Cleanup (Figures 5.2.1 to 5.2.6)**

This module allows users to bulk delete metadata records. You may delete one of all records from the selected collection using this module.

1. Select *Digital Object Workflow Management System* from the OpenMIC initial screen.
2. Select *Administration*.
3. Select *Database Cleanup*.
4. Select *Select or Change Collection here*.
5. Select *Collection*.
6. Select the record(s) to delete. If you want to delete all the records in this collection, choose *Select All*.
7. Click *Delete*.
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

Digital Object Workflow Management System

Figure 5.2.1: OpenMIC initial screen

- **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 cataloging records, create or upload digital objects, map schemas, import, export, etc.

Figure 5.2.2: Digital Object Workflow Management System main screen
Figure 5.2.3: Administration screen

Figure 5.2.4: Database cleanup screen
Figure 5.2.5: Organization List Screen

Figure 5.2.6: Database cleanup screen
5.3) **Transaction Management (Not implemented in this release)**

5.4) **Announcements (Not implemented in this release)**