

# Repository System Release 4.0 Report

Public Release Date 03/07/2007

The following is a summary of the new and improved features included in this release:

## I. WMS new features/enhancements/changes:

### *New Features/enhancements:*

- 1) WMS output of FOXML and ingest of FOXML: This feature allows users to view and ingest the object in Fedora Object XML. The object is ingested in FOXML by default but the user can choose to ingest the object in METS-XML.
- 2) Metadata support for born-digital objects: New controlled vocabulary terms have been added to support metadata for born-digital objects such as objects captured using a digital camera. .
- 3) Thumbnails for multi page objects: Thumbnails are generated for multiple page objects on demand.
- 4) Control Vocabulary Module: This module allows the repository managers to add, edit, or delete changes to pull down values. [For Repository Managers ONLY!!!!](#)
- 5) WMS Help Center: The WMS Help Center allows the metadata managers to add/change help contents for the metadata elements in WMS. Each metadata element is hyperlinked to the help center, and the metadata creators can click on the element to get information about the element while cataloging.
- 6) Fedora Edit: This feature allows the metadata creators to edit metadata for objects that have already been ingested into fedora.

### *Changes:*

- 7) Limitation of number of files processed by WMS: Due to performance issues, we have limited the number of files processed by WMS to 75 pages. The metadata creators must upload pdf, djvu, and OCR'ed xml files for complex objects with more than 75 pages.
- 8) Revised Rights Metadata: The rights metadata elements have been revised to address the metadata requirement for preservation. There are two new required elements – copyright status and availability status.
- 9) Datastream ID: The datastream IDs have been changed from DS-1, DS-2 to functional IDs such as PDF-1, DJVU-1 etc.

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### *Known Issue in WMS:*

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- 1) When you upload a multi page object, the file processing is done in the background. If you create the metadata record for this object before file processing is completed, you will see “M” status even after filling all the required elements. Two workarounds for this issue: 1) allow file processing to complete before creating metadata record or 2) just resave the object again.

## II. Dir/EDIT (Fedora Management) [For Repository Managers ONLY!!!](#)

- 1) Full text searching enhancement to enable a full text search to locate on a page (rather than the object) for any multi page ocr-ed document.
- 2) The collection hierarchy is now managed through the dlrcollections database. When you search for and Edit the collection record for a Fedora object or dynamic but not a full text collection, you will see three new functions: "Manage parents", "Manage searches", and "Generate structure map".
- 3) Improved indexer.

### III. New Jersey Digital Highway/RUcore Search:

- 1) Improved search capabilities
- 2) Collection hierarchy and multiple collection search
- 3) Full text searching enhancement to enable a full text search to locate on a page (rather than the object) for any multi page ocr-ed document.

### IV. Partner Portal

Partner Portal works on the concept of outside agents, partner portals, accessing the same code base while passing a unique key to identify themselves.

## **R4.0 Testing Report**

**Total number of bugs reported: 162**

**Total number of bugs fixed: 159**

**Total hours spent on testing: 725 hours**

### **Breakdown of hours**

#### Testing on Lefty (the test server)

No. of testers: 13

No. of hours spent: 48 hours per tester

Total hours : 624 hours

Testing period : December 19, 2006 to February 2007

#### Testing on MSS2 (the staging server)

No. of testers: 7

No. of hours spent: 12 hours per tester

Total hours : 84 hours

Testing period : February 16, 2007 – February 21, 2007

#### Testing on MSS3 (the production server)

No. of testers: 3

No. of hours spent: 1 hour per tester

Total hours: 3

Testing period: March 7, 2007

### **Features Tested**

#### WMS

Object Architecture tested: photograph, record, manuscript, periodical, book, article, newsletter, audio and video

The following combinations of uploading files were tested for still images and text:

- a) metadata and master (photograph, book, pamphlet, and manuscript)
- b) metadata, master, and dmaster ((photograph, book, and pamphlet)

- c) metadata, master, dmaster, and djvu (photograph)
- d) metadata, master, dmaster, and pdf (photograph, book, and pamphlet)
- e) metadata, master, dmaster, djvu, and pdf (photograph)

We were able to create metadata records for all types of objects and ingest all these objects. We also created custom structure map for book and periodical.

**For Sound:**

- a) master
- b) master and presentation files
- c) master, presentation files, and transcript (.txt)

**For Video:**

- a) master and presentation files.

*Dlr/EDIT & notification*

We were able to edit, purge, validate object, view item index, view method index. We basically clicked on all the clickable links and all seems to work ok. We all got notification emails. We were also able to manage parents for the collections using the new “Manage Parents” feature. The indexing ran very fast in the newer version.

*NJDH/Rucore Search*

We did some generic testing and got expected results. We also did full text searching and got expected results.

*Custom Portal*

Isaiah did some limited testing and got expected results.