

WMS Changes for Release 5.0 (Final)

WMS Impact on Migration to Fedora 3.0

- 1) WMS will have to replace its current disseminator datastreams with RELS-EXT elements pointing to content models controlling the equivalent disseminations.
- 2) WMS should point to external archival master datastreams with IDs in the form RARCH1, RARCH2, etc. This will be a requirement at least for video objects in the next release, and we will need to build in the necessary flexibility in handling control groups. This will also make it easier to distinguish external archival files in the checksum testing program.
- 3) As noted above, WMS will begin using the element `<rulib:contentModel>` in place of the current `<rulib:objectArchitecture>` in technical metadata sections. Current `<rulib:objectArchitecture>` will have to be migrated as part of the filtering process.

WMS Impact on C-Model

- 1) In lieu of adding disseminator code to the object, WMS should add a RELS-EXT datastream pointing to the content model. The following is an example of a new RELS-EXT datastream assigning a collection-disseminating content model (the 123456789 identifier would actually be a Fedora PID number reserved in advance by the WMS):
- 2) There are minor changes to the API required for WMS edit.
- 3) The WMS should add contentModel to techMD. (reference to item 8, WMS impact on FOXML changes)

WMS Impact on NJVid Video Files

- 1) WMS will reserve the Fedora PID object which will be used to rename the object level directories and the archival master in the /rarch directory. The reserved PID should be referenced in the attribute Foxml digitalObject element and the REL-EXT datastream of pre-ingested object.
- 2) WMS will construct the "R" url pointer to the archival master as follows: server/rarch/\$PID/\$PID-RARCH1.tar (e.g. server/rarch/rutgers-lib_20000/rutgers-lib_20000-RARCH1.tar). This url is inserted in the RARCH1 datastream of the video object.
- 3) WMS will upload the Flash (.flv, ID=FLV-1) and video stream QuickTime (.mov, ID=MOV-1) files as per the normal procedure (except these files are in a different working directory, i.e. /rarch).
- 4) WMS initiates a Fedora ingest of the object.
- 5) As a post-ingest action, WMS creates a directory name based on the object PID under /Volumes/DSS1/Library/QuickTimeStreaming/LocalStorage. (i.e directory name: rutgers-lib_201923). WMS moves the .mov file (ID=MOV-1) rutgers-lib_20000/rutgers-lib_201923-MOV-1.mov to that directory using scp.
- 6) At some later date, per our existing workarea policy, all files in the object level directory are deleted EXCEPT for the archival master. This result in the Post-ingest Directory Structure will be /rarch/rutgers-lib_20000/rutgers-lib_20000-RARCH.tar.

WMS impact on FOXML changes

- 1) Foxml changes on version ID

New: <foxml:digitalObject VERSION="1.1" PID="rutgers-lib:13970"
FEDORA_URI="info:fedora/rutgers-lib:13970"

Old: <foxml:digitalObject PID="rutgers-lib:13970" FEDORA_URI="info:fedora/rutgers-lib:13970"

2) Fedora xsi namespace and schema location changes

New: < xmlns:xsi="<http://www.w3.org/2001/XMLSchema-instance>"
< xsi:schemaLocation="info:fedora/fedora-system:def/foxml#
<http://www.fedora.info/definitions/1/0/foxml1-1.xsd>">

Old: < xmlns:fedoraxsi="<http://www.w3.org/2001/XMLSchema-instance>"
<fedoraxsi:schemaLocation="info:fedora/fedora-system:def/foxml#
<http://www.fedora.info/definitions/1/0/foxml1-0.xsd>">

3) 22-rdf-syntax-ns#type is no longer a valid type and not needed in new FOXML

Old: <foxml:property NAME="<http://www.w3.org/1999/02/22-rdf-syntax-ns#type>"
VALUE="FedoraObject"/>

4) New rucore dtd location for all rulib elements

New: <rulib:RULTechMD
xmlns:rulib="<http://rucore.libraries.rutgers.edu/schemas/rulib/0.1/metadata.dtd>"
ID="ARCH1.0">

Old: <rulib:RULTechMD xmlns:rulib="<http://www.scc.rutgers.edu>" ID="ARCH1.0">

5) New rulib:contentModel element in techMD, it replace the objectArchitecture element

New: <rulib:contentModel>Photograph</rulib:contentModel>

6) New FORMAT_URI for DC

New: <foxml:datastreamVersion ID="DC1.0" LABEL="DC Metadata" CREATED="2007-01-24T13:27:27.000Z" MIMETYPE="text/xml"
FORMAT_URI="http://www.openarchives.org/OAI/2.0/oai_dc/" SIZE="1996">

Old: <foxml:datastreamVersion ID="DC1.0" LABEL="DC Metadata" CREATED="2007-01-24T13:27:27.000Z" MIMETYPE="text/xml" FORMAT_URI="info:fedora/fedora-system:format/xml.mets.descMD.OTHER.UNSPECIFIED" SIZE="1996">

7) New RULRightsMD, RULTechMD, RULDigiprovMD and RULSourceMD dtd files

New: <rulib:RULRightsMD
xmlns:rulib="<http://rucore.libraries.rutgers.edu/schemas/rulib/0.1/metadata.dtd>">

Old: <rulib:RULRightsMD xmlns:rulib="<http://www.scc.rutgers.edu>">

New: <rulib:RULTechMD
xmlns:rulib="<http://rucore.libraries.rutgers.edu/schemas/rulib/0.1/metadata.dtd>"
ID="ARCH1.0">

Old: <rulib:RULTechMD xmlns:rulib="<http://www.scc.rutgers.edu>" ID="ARCH1.0">
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New: <rulib:RULDigiprovMD
xmlns:rulib="<http://rucore.libraries.rutgers.edu/schemas/rulib/0.1/metadata.dtd>">

Old: <rulib:RULDigiprovMD xmlns:rulib="<http://www.scc.rutgers.edu>">

New: <rulib:RULSourceMD
xmlns:rulib="<http://rucore.libraries.rutgers.edu/schemas/rulib/0.1/metadata.dtd>">

Old: <rulib:RULSourceMD xmlns:rulib="<http://www.scc.rutgers.edu>">

8) New RELS-EXT datastream for contentModel - and new syntax: fedora-model:hasModel

```
New: <foxml:datastream ID="RELS-EXT" FEDORA_URI="info:fedora/rutgers-lib:13970/RELS-EXT" STATE="A" CONTROL_GROUP="X" VERSIONABLE="true">
  <foxml:datastreamVersion ID="RELS-EXT.0" LABEL="RDF Statements about this object"
  CREATED="2008-10-16T14:30:49.323Z" MIMETYPE="application/rdf+xml"
  FORMAT_URI="info:fedora/fedora-system:FedoraRELSExt-1.0" SIZE="314">
  <foxml:xmlContent>
  <rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:fedora-
  model="info:fedora/fedora-system:def/model#"><rdf:Description
  rdf:about="info:fedora/rutgers-lib:13970"><fedora-model:hasModel
  rdf:resource="info:fedora/rutgers-lib:Photograph-cmodel"></fedora-
  model:hasModel></rdf:Description></rdf:RDF>
  </foxml:xmlContent>
</foxml:datastreamVersion>
</foxml:datastream>
```

Migration

- 1) Migrate to open source WMS.
- 2) Migrate the open source WMS to Fedora 3.0 and php5 environment. (Note: Java Bridge will remain in 5.0)

Faculty submission

- 1) Faculty submission needs to be configured to talk to open source WMS in the backend.
- 2) Intellectual Property Rights page:
 - Place “My Statistics” on this page. It appears on all other pages within the Faculty Deposit module; it should also appear here.
 - Under Step 1, REMOVE the first bullet and the two text boxes (“Are one or more of your co-authors from another University?...”)
 - Under Step 2, REMOVE this sentence: “Alternatively, you can consult this Director of Publishers and Vendors <http://www.acqweb.org/pubr.html>.” REPLACE it with this sentence: “If your journal or publisher is not listed on the Romeo service, consult your publisher agreement, the journal instructions to authors, or the publisher’s web pages.”
- 3) Metadata/Information page:
 - For the Subject element, spell-out the word “semi-colon” in the instructions [(When entering multiple values, separate each one with a semi-colon ";")]
- 4) My Collection:
 - Expand the width of the Title column and reduce the width of the Filename column