

Software Architecture Working Group

August 5, 2008

Minutes of July 31, 2008 Meeting

Agenda

1. File/Directory naming conventions
2. Migration of content to Fedora 3.0
3. Signature checking status
4. Schedule for R5.0 and R5.1

File/Directory Naming Conventions for Video Files

After an extended discussion, we agreed to locate all the necessary files for upload in the /rarch directory and WMS would upload from this area. Post-ingest activity would involve renaming the files and ftp-ing the QT stream to Darwin. The details of this process along with workflow have been captured in a draft specification and subsequently sent out to sw_arch by Ron. We will review this specification in the next sw_arch meeting with the intent of baselining the document. With these conventions established, we should be able to begin ingest of videos into the NJVid collection of RUcore (R4.5). By using these conventions, all objects ingested should be compatible with R5.0.

Migration of Content to Fedora 3.0

We decided that our migration process should include updating of old objects that did not benefit from more recent standards that we have introduced. The following excerpt from Jeffery's one page handout provides an overview of the migration process and the process for updating IDs, object architectures and pointers to DTDs.

“The following is a scenario for migrating objects to Fedora 3.0 using Fedora's migration utility to identify member lists for multiple, empirical content models and then simplifying these lists before the XSLT stage based on semantic object architectures. The XML objects will first be exported from mss3 to a test machine at the SCC. Here they will be analyzed, and certain updates will be made to the XML (specifically, the references to hardwired DTDs will be removed, the old DS# datastream IDs will be updated to reflect the current functional ID system (e.g. PDF-1, etc.), and certain non-standard objectArchitecture elements will be mapped to the current standards. The objects will then be ingested into a 2.1 Fedora server at the SCC with sufficient storage. The work of identifying content model groups will be done on the SCC test machine using these XML objects and the objects will be upgraded in place to Fedora 3.0 on the test machine. They will then be re-ingested into a 3.0 installation of Fedora on the production machine for the 5.0 release.”

The process was described in more detail in the handout and was approved by the software architecture team. To accommodate the increased storage requirements, Sho will work with Isaiah to purchase (relatively) inexpensive storage for the migration.

Signature Checking Update

Kalaivani provided an update on the repair of objects which are failing the signature check process. There remain 7 objects in three categories: 1) videos with multiple archival masters, 2) objects with no datastreams, and 3) objects with no archival master. It is expected that these will be fixed in the near future. We anticipate that refreshments for the event “no signature failures” will be provided by Ron in one of our September meetings.

Schedule for R5.0 and R5.1

We reviewed the critical path items for R5.0 and it looks like WMS will need more time to complete the open source release (R4.6) and to add additional capability for R5.0. We decided that we will not do a separate release of R4.6 – it will be tested on lefty and then we will proceed to add features required for R5.0 (e.g. the creation of rels-ext for content models). This development work will probably take us well into October. Given about a month for testing and installation on mss3, we concluded that we would want to push the release out to the 3rd or 4th week of November in order to avoid the NJEDge demonstration of videos in R4.5. Ron will advise Grace of these schedule changes. These changes will also push R5.1 out into the 1Q2009.

Pending Items for the Next Meeting

1. Finalize file naming conventions
2. Migration/Shibboleth Update
3. Review of requirements for R5.1
 - a. Custom Portal
 - b. Faculty Survey
 - c. ETDs
 - d. Annotations
 - e. Faculty Deposit object architecture
4. Configuration/Installation for NJEDge