

Software Architecture Working Group**September 12, 2008****Minutes of September 11, 2008 Meeting****Agenda**

1. Shibboleth Update
2. Fedora Security
3. ETD requirements review
4. NJVid Video ingest
5. Faculty Survey Requirements
6. Goals

Shibboleth Update

Chuck Hedrick has configured Shibboleth 2.0 and LDAP for us to use in development. More work will need to be done to finalize what attributes will be needed. However, for now, we can begin to do some development prototyping using attributes such as Primary Affiliation which gives us multiple values such as faculty, student, alum, staff, employee, etc.

Fedora Security

We had considerable discussion on how best to handle the security problem. In the end, we decided that the risk was sufficiently severe to indicate that we must fix the problem. A Fedora patch will not work on release 2.1.1 so this approach has been ruled out. The approach that will work requires blocking access to port 8080. To implement this approach, application software changes will have to be made, primarily in WMS and dlr/EDIT. In order to get the security release out as soon as possible, these changes will be our highest priority. We determined that code freeze for these changes will be September 19 although we may be able to do them earlier. After code freeze, Kalaivani will go through the standard testing process. Software developers who make changes will need to provide Kalaivani with a document identifying all user features that might possibly be affected. This document will be used to do very targeted testing and hopefully we will not need to re-test the entire code base.

This security release will be designated R4.5.2 and will be released in early November. Kalaivani will post final testing and release dates. It is expected that this effort to put out the security release and the remaining work on WMS will push release R5.0 out into January, 2008. Ron will communicate this estimate to Grace.

Update on Ingest of NJVid videos into RUCore

Isaiah provided an update on status and a demo of video streaming on lefty. He reported that the collection structure has been set up on lefty and a video has been ingested. During the course of the demo, two minor problems related to statistics software and the convention for the RARCH url string were uncovered. The statistics problem was fixed immediately by backing out the R5.1 code. For the url string, we decided that the "+" had to be replaced with a hyphen. A successful ingest was later run on lefty which showed the proper url string. With these fixes, ingest is ready to begin on mss3.

ETD Requirements

Shaun reviewed the ETD requirements for R5.1. covering the RESTful interface, messaging service, PDF generation, embargoing ETDs with XACML, metadata for supplementary files, and the export to UMI function. The following are noted:

- Regarding the messaging service, Shaun will examine Java Messaging Service as a possible implementation tool. We tentatively concluded that JMS might not be appropriate but its worth a look.
- WMS will need to invoke pdftotext for ETDs and other PDF documents in order to have full text searching via amberfish.
- To embargo an ETD, an xacml policy can be submitted. The MDWG will need to supply Shaun with appropriate metadata for the publication date. WMS will implement the policy in R5.1. In the meantime, an xacml policy could be added via dlr/EDIT to achieve an embargo.
- Supplemental files will require additional metadata. Ron asked Chad and Shaun to propose a content model for ETDs with supplemental files. Two approaches are under consideration: a) the supplemental file is a separate object referenced via rels-ext or b) using multiple sets of metadata, the supplementary files are contained within a simple object. We will need a specification for the content model. Ron will add it to the release summary.
- The “export to UMI” function was summarized. Shaun proposed that he can create a class that could be used by both the ETD system and for the Fedora-based export function. We will need a specification of the Fedora-based function. Ron will add to the release summary.

Goals

Ron mentioned at the start of the meeting that he would post a draft of the goals for email discussion. The date to Grace has been extended to October 10 so we will plan to discuss goals at the next sw_arch meeting on Sept. 25.

Pending Items for Next Meeting

- Goals
- Faculty survey
- “Randomized access points” for Darwin server
- WMS requirements for R5.0
- Annotation specification
- User services – general spec
- Release summary and R4.5.2
- Shibboleth update
- Jpeg thumbnails as datastreams