

Software Architecture Meeting, Thursday, June 11th, 2009

(Ananthan, Geng, Marker, Mills, Nakagama, Triggs , Yu)

Agenda

1. **Migration status** - all
2. **Faculty Submission co-author** (multiple related Items) (Geng, Triggs and Yu)
3. **Handling Licensed docs** (Marker)
4. **PDF Text layer specification** (Triggs)

Agenda Items

1) Migration status

Hoover sent a message prior to the meeting that the outstanding LDAP configuration and installation was seemingly corrected. Ananthan reported she had done some initial testing before the meeting and things are working as expected, however more testing needs to occur after the meeting. Ananthan did note the links located in the header of the Faculty Submission AFTER logging in point to lefty.scc-net. Yu confirmed those URI's in the links are defined in the configuration file and need to be changed by Hoover. Even though the openLDAP that was configured does not align with the test system it was decided it was not a show-stopper and this item should not stop the migration. This will be corrected in the next release of the repository software, either minor or sub release numbers.

In dlr/EDIT an error was reported involving alert.pl. The alert.pl script is not used anymore and has been replaced with alert.php. In the future releases of software old and unused file cleanup will take a higher priority. Also in the future, changes from using a script like alert.pl to alert.php will be noted in README files. Triggs noted to correct the error the incs file on MSS2 needs to have the variable \$ALERT point to alert.php instead of alert.pl.

In dlr/EDIT it was discovered that there are five copies of the XPath.class.php file under the dlr directory. Some of those classes were not corrected; the version of the file under /dlr/EDIT/notification/ is the correct one. In this release the other four instances of the XPath.class.php needs to be replaced with the copy under /dlr/EDIT/notification to correct the issues. In a future release all copies will be removed and replaced with one copy stored in the established includes directory. For this release dlr/EDIT will be repackaged with the copies of the XPath.class files replaced.

The syntax issues between versions of libxslt (1.18 & 1.17) was discussed. While just changing xsl:param= to xsl:variable= seemed to correct the issue it is unclear the number of scripts that use this syntax. Also correcting this on the development side would require an upgrade of the development libxslt and thus require a full test cycle. When Hoover reported the issue he reported that pointing the incs file to the old version of xsltproc resolved the issue without changing the param to variable. Per Hoover's notes it was decided that staying with previous version of xsltproc used by RUCore release 4.5.2 would be the best solution, although not ideal. In a minor or sub release this issue will be resolved after more investigation of the syntax change, and others not known at the time are fully vetted on the development system.

Overall it was decided that we should go ahead with the read-only system notification and plan as outlined below. Starting next Monday, 6/15, the repository will be in read-only mode. Between now and then the two known fixes to the WMS(addition of java class) and dlr/EDIT(correction of XPATH.class files) packages will be put in place on the development machine. Those are the only two changes. Those packages will need to be pulled and reinstalled on mss2 by Hoover and then tested by Ananthan in parallel to the read-only downtime schedule. The expectation is that the packages will be ready by the end of Thursday 6/11 and installed on mss2 by Friday 6/12 with testing possibly Friday and Monday the 15th. This was determined since software installed on mss3 is delivered from lefty64 and thus those install packages need correcting.

Date	Task
5/22 (Fri)	Ananthan provides Nakagama MSS2 Fedora ID's to be migrated to Fedora 3.0 objects for later testing on MSS2. Working with Hoover, Nakagama exports those objects from MSS2.
6/03 (Wed)	Hoover completes MSS2 software upgrades and the test Fedora 3.0 objects are in place. MSS2 is ready for testing.
6/03 (Wed)	Ananthan configures WMS on MSS2.
6/04 (Thu) – 6/05 (Fri)	Testing on MSS2 is conducted.
6/08 (Mon)	Nakagama reports on read-only system readiness at Software Architecture. Ananthan provides MSS2 testing feedback. Message to repository users of impending read-only time is sent after Software Architecture approval.
6/15(Mon) Due early morning	The current MSS3 (V440) is considered to be in read-only mode. WMS, Faculty Deposit and NIH Submission capability are replaced with a “read-only downtime message” to prevent logging in & use.
6/15(Mon) – 6/16 (Tue)	Temporary read-only system pulls all Fedora 2.x objects from MSS3 (V440) in preparation of becoming the read-only system.
6/16 (Tue)	The V440 that is being upgraded is taken offline and replaced with the read-only system.
6/16 (Tue)	A pull of all objects from the V440, which is now offline, to the migration box is begun. Initial filtering is checked.
6/24 (Wed)	Initial conversion of objects on migration box is complete. The final step of the conversion begins.
6/25 (Thu) – 6/26 (Fri)	Objects on migration box are converted and the push back from the migration box to the V440 commences. At this point the V440 will have had its Fedora and related software upgrades completed.
6/29 (Mon)	All converted Fedora 3.0 objects are in place on the V440. All software upgrades and R5.0 code is installed. The V440 is ready for testing.
6/30 (Tue) – 7/6 (Mon)	Testing is conducted on the V440.
7/7 (Tue) – 7/9 (Thu)	The V440 replaces the read-only system and the R5.0 release is complete.

2) Faculty Submission co-author

Geng, Triggs and Yu presented their solution for implementing the co-author feature in Faculty Deposit, 5.1. It was accepted as presented with some minor clarifications to the workflow process by Marker. It was noted that the specification document should mention the solution is only available for co-authors who are at Rutgers University.

Third party submission was discussed briefly and it was noted that clarification as to where the copyright information signed off by the user will go in the rights section of the metadata. This clarification will be supplied in the specification.

The embargo feature was discussed and passed with some minor revisions and a new feature for the user. The new feature is that other than choosing a period of time to embargo, i.e. 6 months, the user can specify a date such as 9/12/2010. This will be an either or option and a specific date will be supplied using pulldowns of days, months and years to normalize input from the user.

The mechanics of how the WMS will implement XACML policy generation will be discussed in the WMS 5.1 specification document. The ETD application will also be able to use this embargo feature and the ETD application should follow the same outline the Faculty Deposit does. The ETD application will need to supply the embargo information similarly to how Faculty Deposit does. Ellis will need to communicate with Geng, Marker and Yu about any details needed to implement for ETD's in 5.1.

The Faculty Deposit 5.1 specification has been fully vetted by Software Architecture and will be posted on the RUcore site after the final revisions are made. It will then be forwarded along to Grace Agnew and Cyberinfrastructure.

Next Meeting

The next Software Architecture Meeting is scheduled for Thursday, June 25th at 9:30 A.M. at the SCC. An initial, proposed agenda is below:

- 1) Migration Status
- 2) Handling Licensed Documents (Marker)
- 3) PDF Text layer specification (Triggs)