Software Architecture Working Group   **August 22, 2008**

Minutes of August 14, 2008 Meeting

Agenda

1. Quality Initiatives Update
2. Finalize File/Directory Naming Conventions
3. Update on Migration to Fedora 3.0 and Content Models
4. Shibboleth Update
5. Review of Custom Portal Specification (R5.1)
6. Review of ETD specification (R5.1)

Quality Intiatives

Ron introduced the concept of quality initiatives. The basic idea is to be vigilant about various problems that are re-occurring in RUcore and, not only fixing these problems, but also making sure we can prevent the problems from re-occurring. The following are four areas where we are working:

- Chad developed a class for correcting duplicate collection IDs. The IDs have been corrected and Jeffery will explore the possibility of providing this function in dlr/EDIT. It's not clear how these duplicate IDs were created originally. With the current version of WMS, it should be impossible to created duplicate collection IDs.

- We have 3 objects that are still failing the signature check. Kalaivani will repair these after she gets back from vacation.

- Jeffery has updated a script that will not only detect bad handles but also repair the broken handles. There are some 30 handles broken on mss3, many of which date back to May 20, 2008. The script should be run to repair these but we need further investigation as to how to prevent these problems. If we were part of the distributed Handle network, presumably this would eliminate the single point of failure (i.e. our Handle server).

- Google indexing. ETDs, Faculty Collections, and Historic Maps have all been pushed out to Google, however we are experiencing very bizarre indexing behavior. In particular, Google doesn't appear to pick up all objects that are in the site map and, when it does, certain critical data do not get indexed, e.g. surnames. The investigation is continuing.

File/Directory Naming Conventions for Large Files

The File/Directory naming conventions for large files was approved. There is one area we need to investigate as part of R5.0 – the IDs used for the SMIL and QT datastreams. We may want to change these to SMIL-1 and MOV-1 respectively. The document has been finalized and will be posted to RUcore. Given these conventions, the following actions are required to begin ingest of videos for NJVid using the current release – R4.5:

- Identify video sources. Isaiah will be doing this in the week of August 18.
- Per the selected videos, create sub-collections under the NJVid Commons collection (Mary Beth).

- Create the /rarch directory on mss3 where the archival masters will be placed (Dave).

Our objective is to try to ingest a few videos in the last week of August. Isaiah and Jeffery will work with Mary Beth to begin this process and to introduce Mary Beth to the workflow required, specifically the edits in dlr/EDIT.

Update on Migration to Fedora 3.0 and to Content Models

Jeffery has completed the filter for updating IDs from the legacy "DS" convention and for mapping invalid object architectures to valid ones. The specification for the object architecture map has to be developed. Ron will work with Rhonda to create the map in the next few weeks. We also need urls for the DTD and CSS links that are currently inserted in the object or used for presentation. Chad will set up the directory locations for these links (this work has been completed). Jeffery's filter will do the update on ingested objects and WMS will need to be updated for new objects to be ingested.

Shibboleth Update

Joe Lizzi reported (via email) that he now has Shibboleth 2.0 running and appears to be on schedule to turn it over to us with RU LDAP by the end of August.

Custom Portal – Review of R5.1 Specification

Chad reviewed the specification for the enhanced customer portal. The enhancements include major new capabilities such as the support for collection hierarchies, ability to create pre-programmed searches, and customizable search displays without doing additional coding. The architecture and modularity of the portal capability has also been enhanced to operate as a true service enabling future integration into other applications. The specification was approved although Chad indicated that we would be making some additional updates before posting to RUcore.

Review of ETD Specification

Shaun began the review of changes to the ETD application that would affect RUcore including embargo, export to UMI and OCR capability. We ran out of time so we will complete this review in the August 28 meeting.

Next Meeting

Kalaivani mentioned that we need to address staffing for testing and how we handle testing for applications. This issue should probably be discussed in Cyber-Infrastructure. Agenda items for the next meeting include:

- ETDs
- Migration and Shibboleth
- Annotation spec.
- Faculty Survey
- NIH Submission
- Object Architecture map
- Configuration and Installation for NJEDge